

4 TERMINAL 2A OUTPUT LOW DROP VOLTAGE REGULATOR

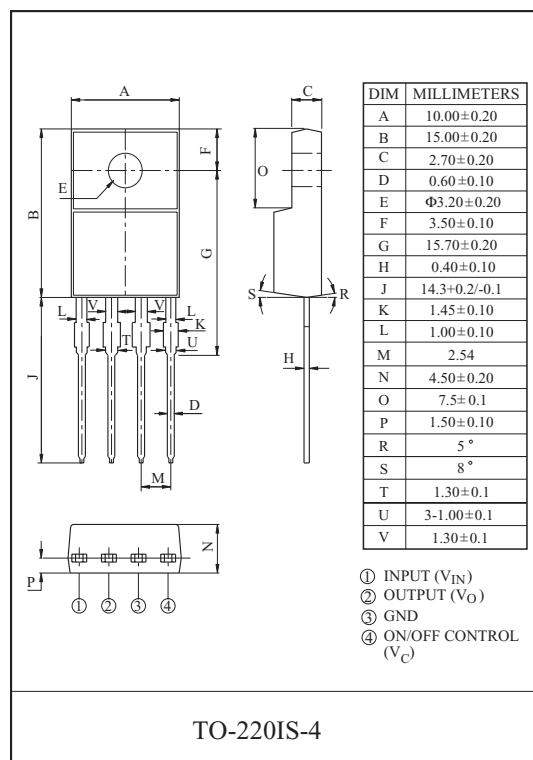
The KIA278R × × Series are Low Drop Voltage Regulator suitable for various electronic equipments. It provides constant voltage power source with TO-220-4 terminal lead full molded PKG. The Regulator has multi function such as over current protection, overheat protection and ON/OFF control.

FEATURES

- 2.0A Output Low Drop Voltage Regulator.
- Built in ON/OFF Control Terminal.
- Built in Over Current Protection, Over Heat Protection Function.

LINE UP

ITEM	OUTPUT VOLTAGE (Typ.)	UNIT
KIA278R05PI	5	V
KIA278R06PI	6	
KIA278R08PI	8	
KIA278R09PI	9	
KIA278R10PI	10	
KIA278R12PI	12	
KIA278R15PI	15	



MAXIMUM RATINGS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	Remark
Input Voltage	V _{IN}	35	V	-
ON/OFF Control Voltage	V _C	35	V	-
Output Current	I _O	2	A	-
Power Dissipation 1	P _{d1}	1.5	W	No heatsink
Power Dissipation 2	P _{d2}	15	W	with heatsink
Operating Junction Temperature	T _{J(opr)}	-40~150	°C	-
Storage Temperature	T _{stg}	-45~150	°C	-
Soldering Temperature (10sec)	T _{sol}	260	°C	-

KIA278R05PI~KIA278R15PI

Fig. 1 Standard Test Circuit

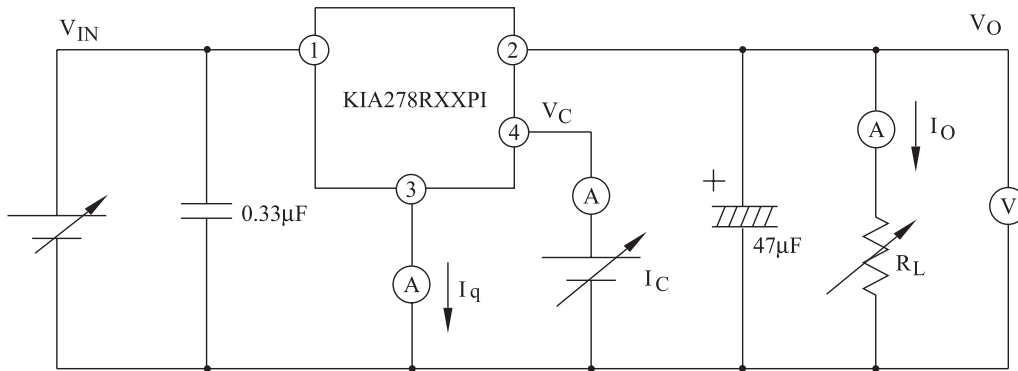


Fig. 1-2 Ripple Rejection Test Circuit

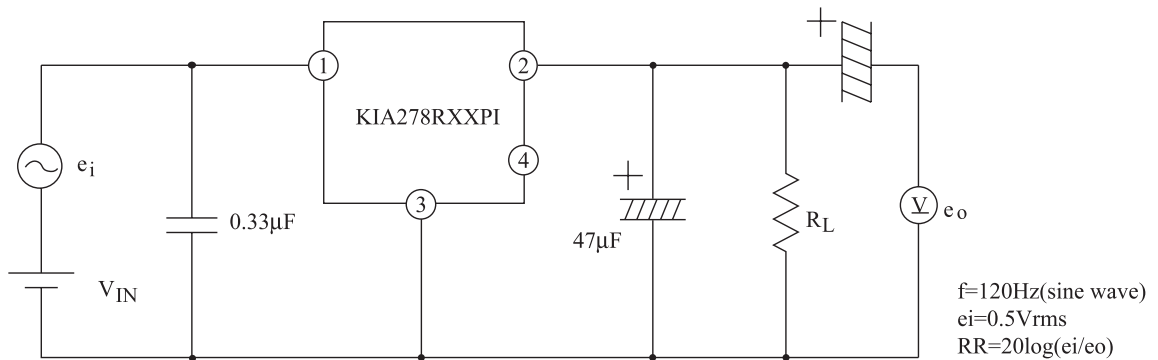
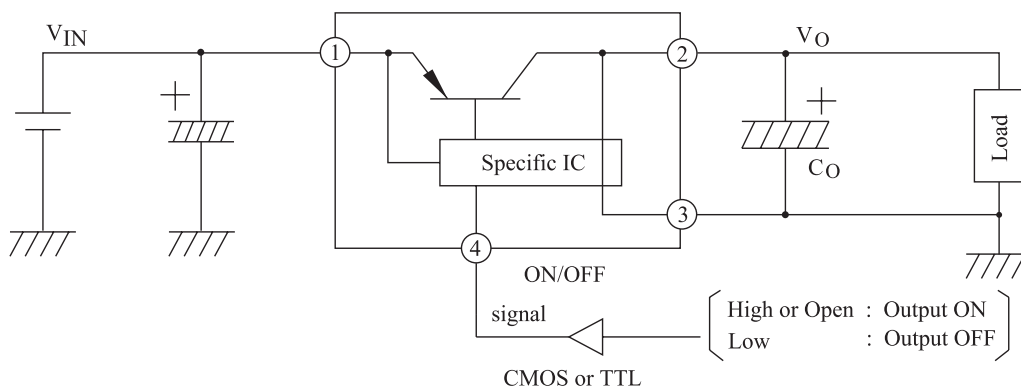
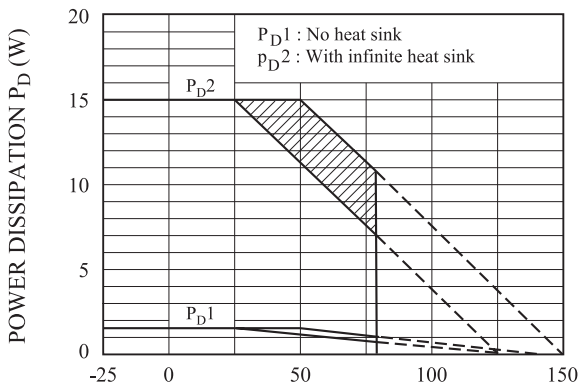


Fig. 2 Application Circuit for Standard



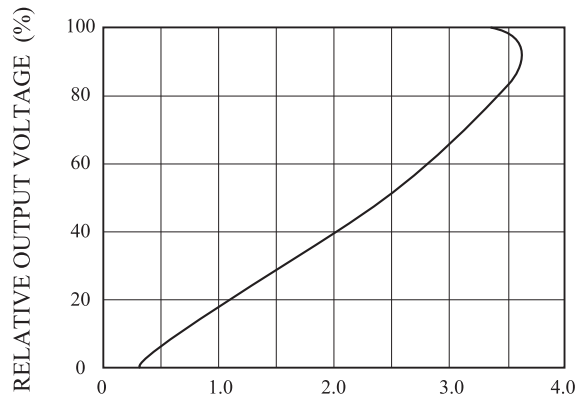
KIA278R05PI~KIA278R15PI

Fig.3 Ta - P_D



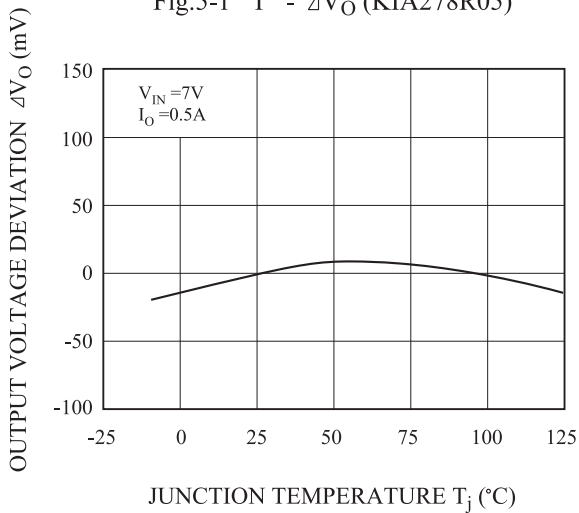
AMBIENT TEMPERATURE Ta (°C)
 Note) Oblique line portion : Overheat protection may operate in this area.

Fig.4 I_O - V_O



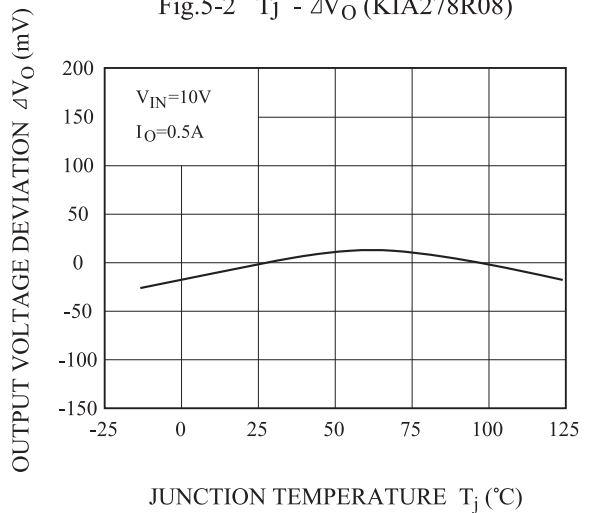
OUTPUT CURRENT I_O (A)

Fig.5-1 T_j - ΔV_O (KIA278R05)



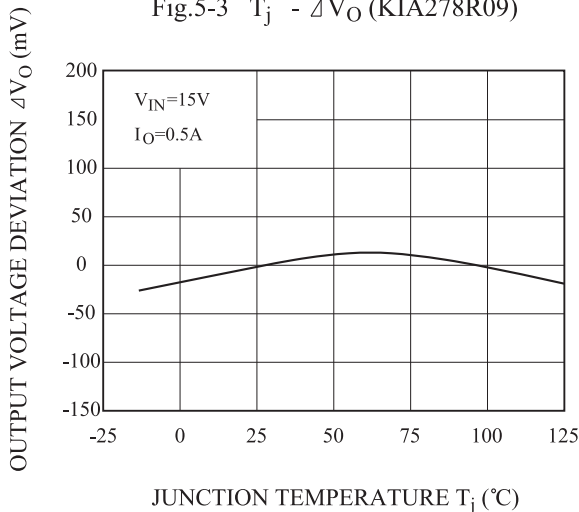
JUNCTION TEMPERATURE T_j (°C)

Fig.5-2 T_j - ΔV_O (KIA278R08)



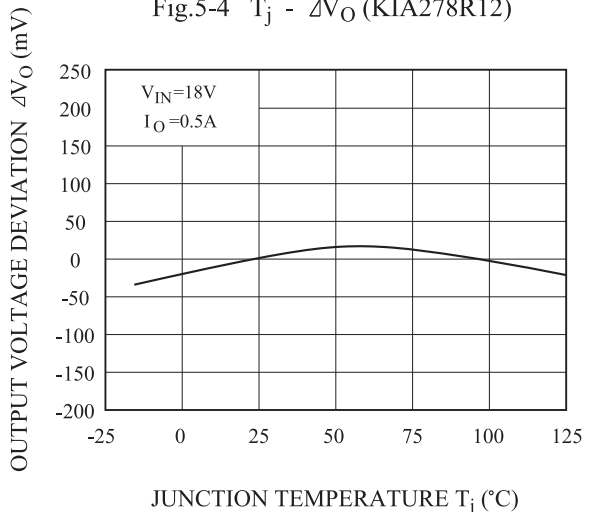
JUNCTION TEMPERATURE T_j (°C)

Fig.5-3 T_j - ΔV_O (KIA278R09)



JUNCTION TEMPERATURE T_j (°C)

Fig.5-4 T_j - ΔV_O (KIA278R12)



JUNCTION TEMPERATURE T_j (°C)

KIA278R05PI~KIA278R15PI

Fig.5-5 $T_j - \Delta V_O$ (KIA278R15)

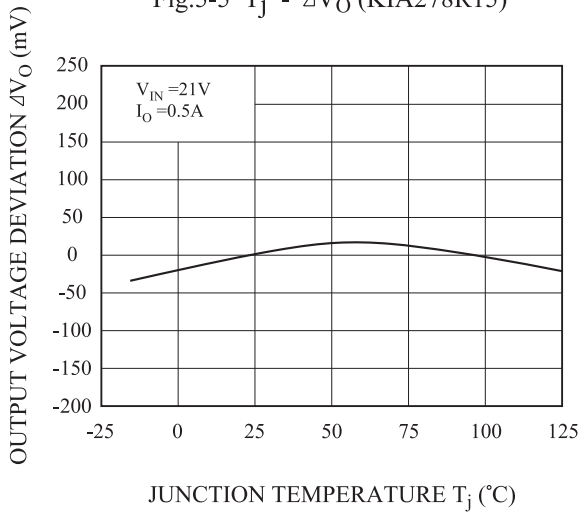


Fig.6-1 $T_j - V_O$ (KIA278R05)

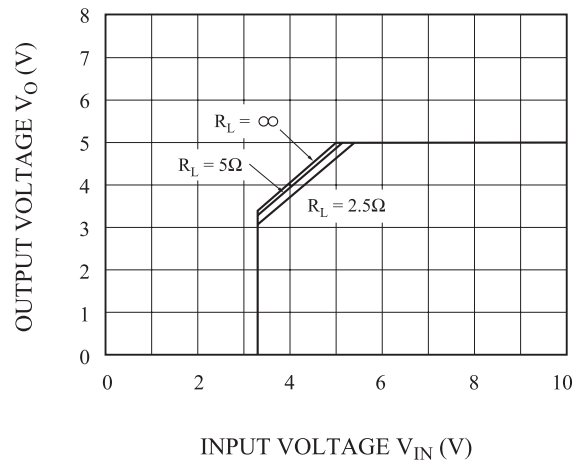


Fig.6-2 $V_{IN} - V_O$ (KIA278R08)

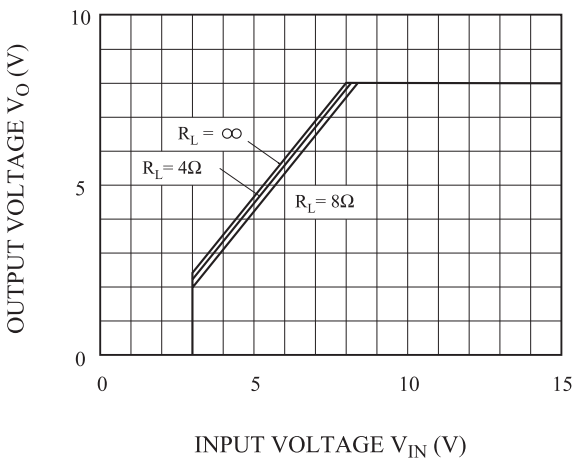


Fig.6-3 $V_{IN} - V_O$ (KIA278R09)

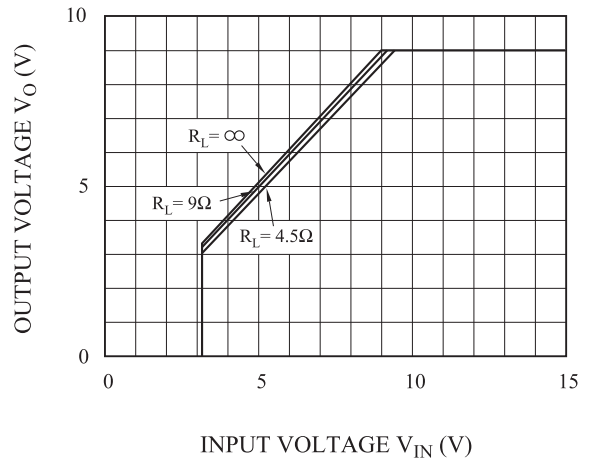


Fig.6-4 $V_{IN} - V_O$ (KIA278R12)

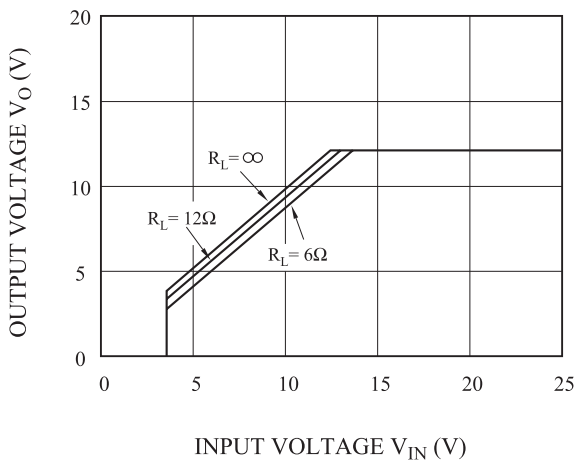
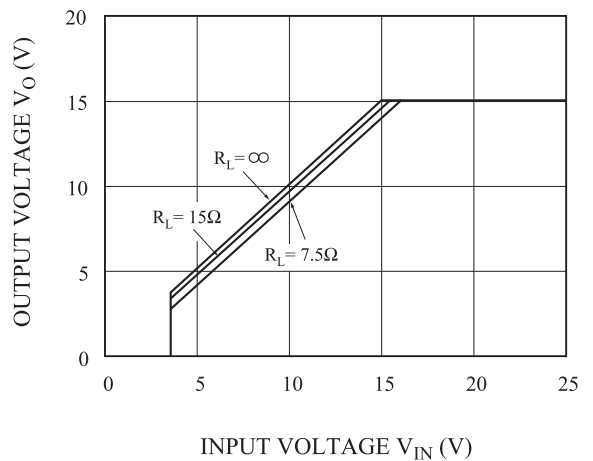
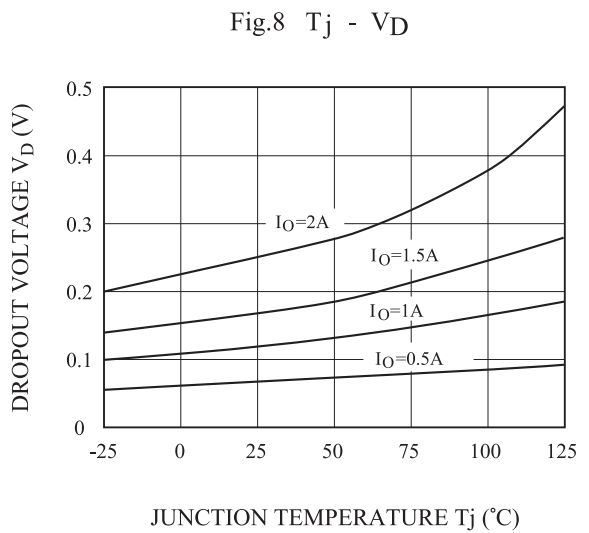
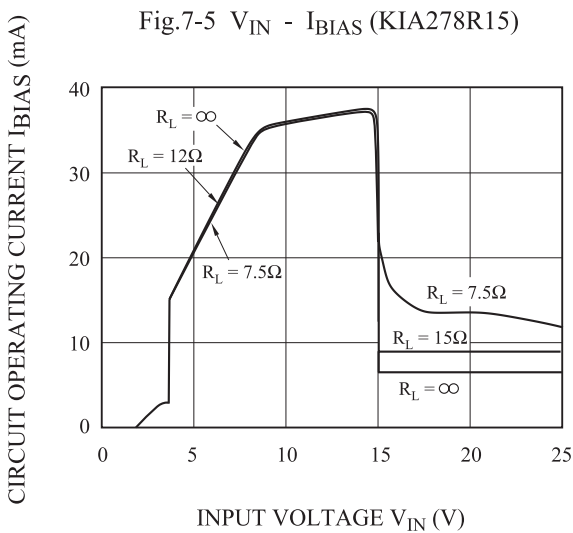
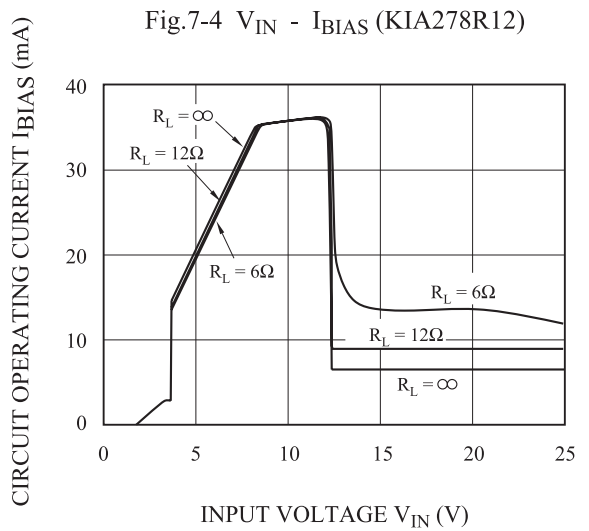
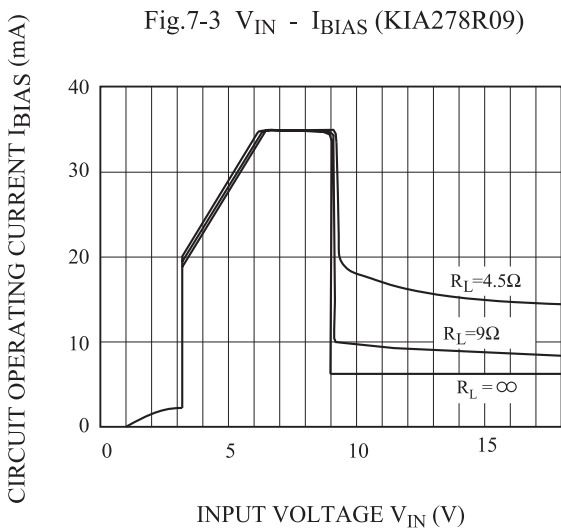
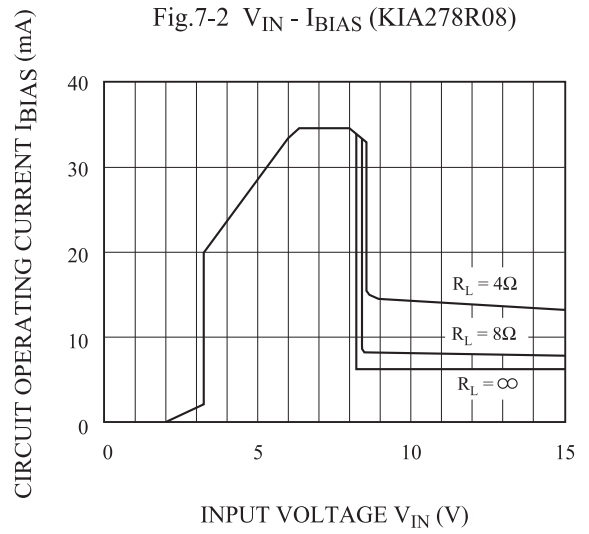
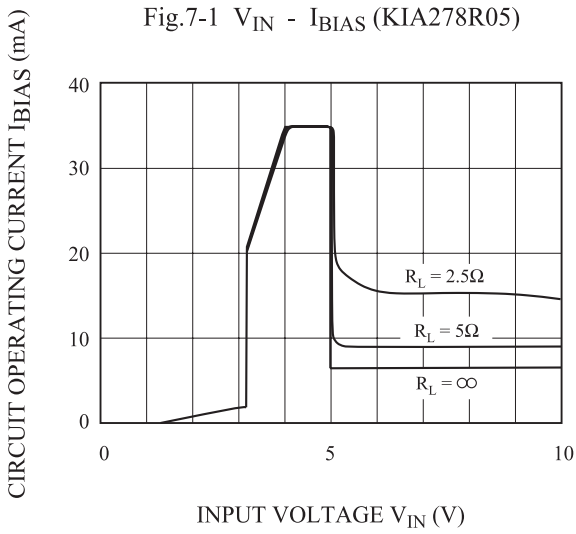


Fig.6-5 $V_{IN} - V_O$ (KIA278R15)



KIA278R05PI~KIA278R15PI



KIA278R05PI~KIA278R15PI

Fig.9 $T_j - I_q$

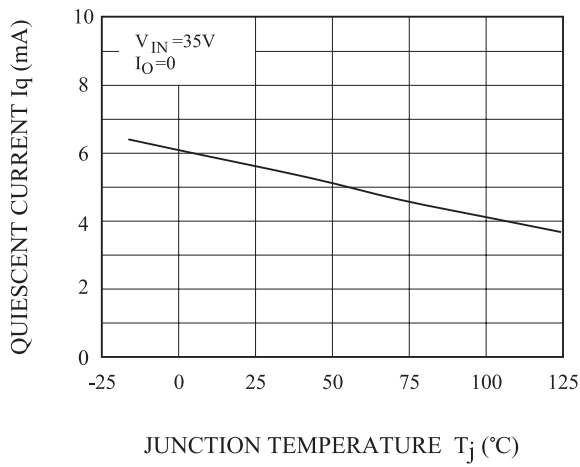


Fig. 10-1 $f - RR$

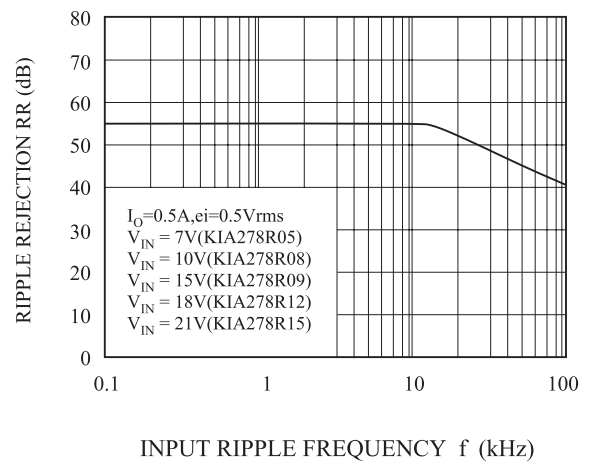
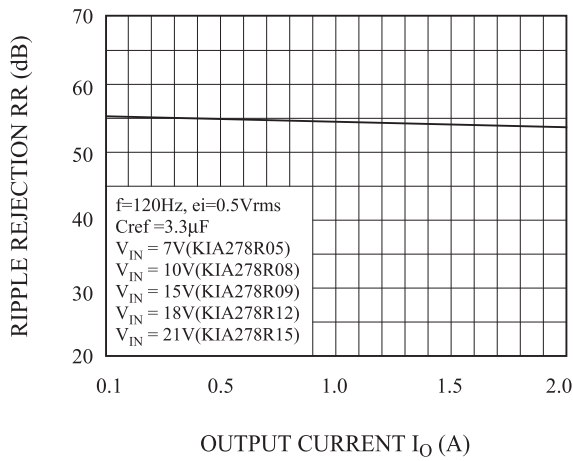


Fig.10-2 $I_O - RR$



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LDO Voltage Regulators](#) category:

Click to view products by [KEC](#) manufacturer:

Other Similar products are found below :

[AP7363-SP-13](#) [L79M05TL-E](#) [AP7362-HA-7](#) [PT7M8202B12TA5EX](#) [TCR3DF185,LM\(CT](#) [TCR3DF45,LM\(CT](#) [TLE4473G V52](#) [059985X](#)
[NCP4687DH15T1G](#) [701326R](#) [NCV8170AXV250T2G](#) [AP7315-25W5-7](#) [AP2111H-1.2TRG1](#) [ZLDO1117QK50TC](#) [AZ1117ID-ADJTRG1](#)
[TCR3DG12,LF](#) [MIC5514-3.3YMT-T5](#) [SCD7912BTG](#) [NCP154MX180270TAG](#) [SCD33269T-5.0G](#) [NCV8170BXV330T2G](#)
[NCV8170BMX330TCG](#) [NCV8170AMX120TCG](#) [NCP706ABMX300TAG](#) [NCP153MX330180TCG](#) [NCP114BMX075TCG](#) [MC33269T-3.5G](#)
[CAT6243-ADJCMT5T](#) [TCR3DG33,LF](#) [TCR4DG35,LF](#) [TAR5S15U\(TE85L,F\)](#) [TAR5S18U\(TE85L,F\)](#) [TCR3UG19A,LF](#) [TCR4DG105,LF](#)
[MPQ2013AGG-5-P](#) [NCV8170AMX360TCG](#) [TLE4268GSXUMA2](#) [NCP715SQ15T2G](#) [MIC5317-3.0YD5-T5](#) [NCV563SQ18T1G](#)
[NCP715MX30TBG](#) [NCV8702MX25TCG](#) [NCV8170BXV120T2G](#) [MIC5317-1.2YD5-T5](#) [NCV8170AMX150TCG](#) [NCV8170BMX150TCG](#)
[AP2213D-3.3TRG1](#) [NCV8170BMX120TCG](#) [NCV8170BMX310TCG](#) [NCV8170BMX360TCG](#)