PINGWEI ENTERPRISE

FR101 THRU FR107

1.0AMP . FAST RECOVERY RECTIFIERS

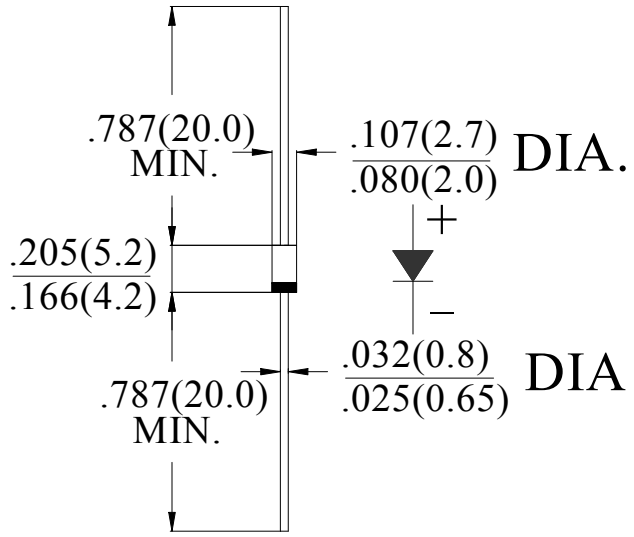
FEATURE

. Fast switching
. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High surge capability
. High temperature soldering guaranteed
260°C /10sec/ 0.375" lead length at 5 lbs tension

MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
. Polarity: color band denotes cathode
. Mounting position: any

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	SYMBOL	FR 101	FR 102	FR 103	FR 104	FR 105	FR 106	FR 107	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T_A =55°C	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0							A
Maximum Instantaneous forward Voltage at 1.0A DC	V_F	1.3							V
Maximum DC Reverse Current @T_A=25°C at rated DC blocking voltage @T_A =100°C	I_R	5.0 100.0							μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	150				250	500		nS
Typical Junction Capacitance (Note 2)	C_J	15							pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	75							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation JunctionTemperature	T_J	-55 to +150							°C

Note:

1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 0.375"（9.5mm）lead length, vertical P.C.Board Mounted.

RATING AND CHARACTERISTIC CURVES (FR101 THRU FR107)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

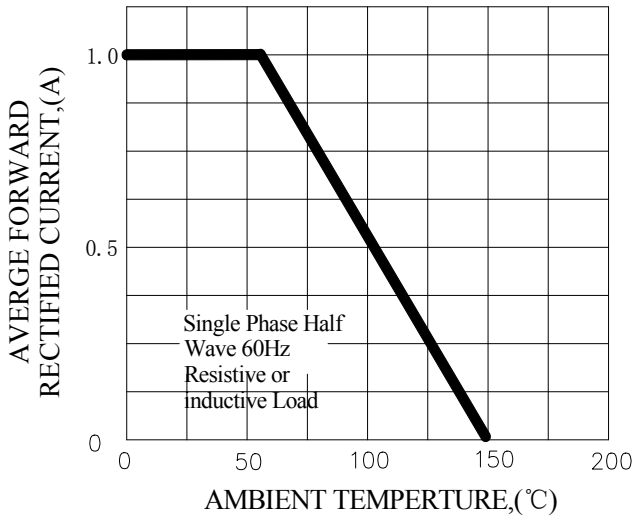


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

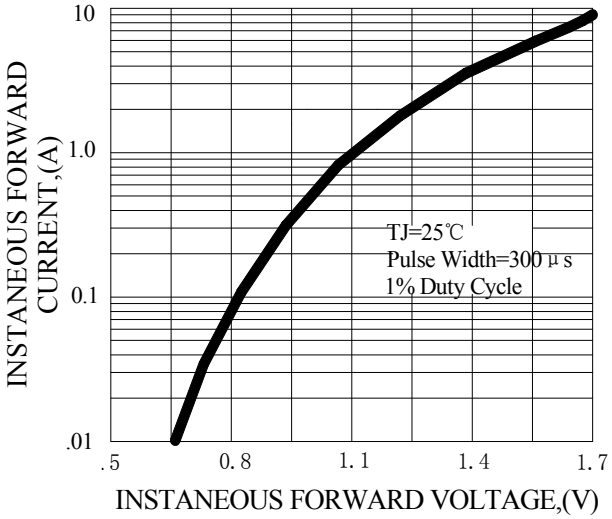


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

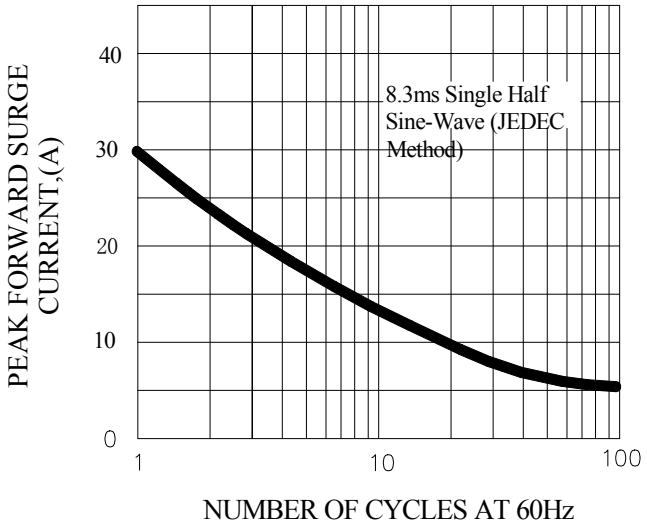


FIG.4-TYPICAL REVERSE CHARACTERISTICS

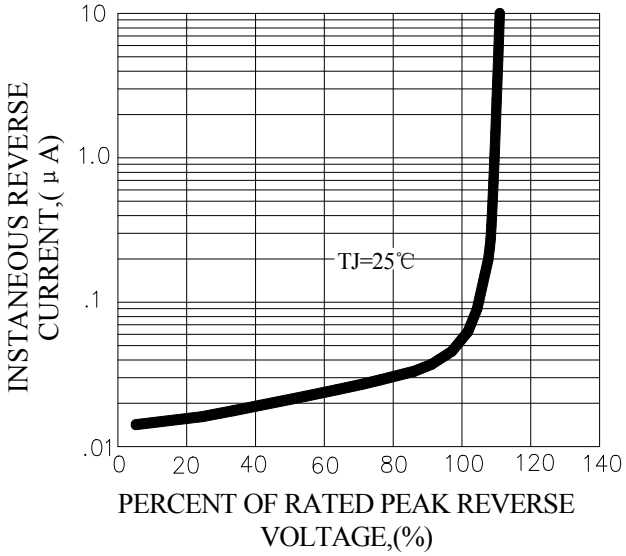
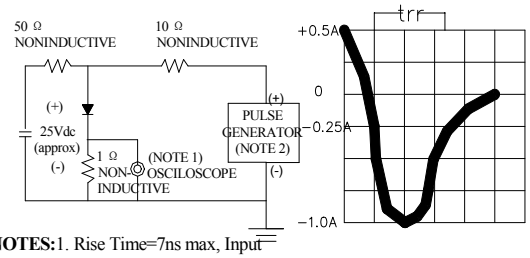


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



NOTES:1. Rise Time=7ns max, Input Impedance= 1 megohm.22pF.
2. Rise Time=10ns max, Souce Impedance= 50 ohms.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers ***category:***

Click to view products by Pingwei ***manufacturer:***

Other Similar products are found below :

D91A DA24F4100L DD89N1600K-A DD89N16K-K RL252-TP DSEI2X30-06C 1N4005-TR BAV199-TP UFS120Je3/TR13 JANS1N6640US DD89N16K DD89N16K-A 481235F 067907F MS306 ND104N08K SPA2003-B-D-A01 US2JFL-TP UFS105Je3/TR13 A1N5404G-G ACGRA4007-HF ACGRB207-HF RF301B2STL RF501B2STL UES1302 BAV199E6433HTMA1 ACGRC307-HF ACEFC304-HF JANTXV1N5660A UES1106 GS2K-LTP D126A45C D251N08B SCHJ22.5K SM100 SCPA2 SDHD5K STTH20P035FP VS-8EWS12S-M3 VS-12FL100S10 ACGRA4001-HF MUR420GP-TP 1N5404GP-E3/54 ND89N08K D1821SH45T PR D1251S45T JANTX1N3890 SKN20/16 SKN70/16 1N3660R