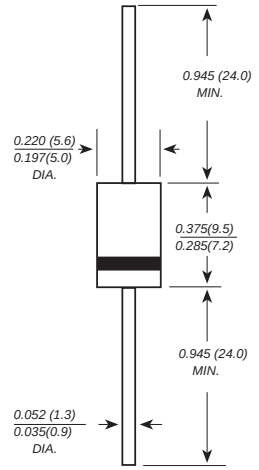
SRA6E

10.0AMPS. Super Fast Recovery Rectifier

DO-201AD/DO-27



Dimensions in inches and (millimeters)

Features

. Low forward voltage drop
. High current capability
. High reliability
. High surge current capability
. Epitaxial construction
. High temperature soldering guaranteed
260°C /10seconds, 0.25"(6.35mm)from case.

Mechanical Data

. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
. Mounting position: any

Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%

Maximum Ratings (T$_C$=25℃ unless otherwise noted)

Parameter	Symbol	SRA6E	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current at T$_C$ =100°C	$I_{F(AV)}$	10.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	120	A
Maximum Reverse Recovery Time (Note 1)	t_{rr}	30	nS
Typical Junction Capacitance (Note 2)	C_J	50	pF
Operation Junction Temperature and Storage Temperature	T_J, T_{STG}	-55 to +175	°C

Electrical Characteristics (T$_C$=25℃ unless otherwise noted)

Parameter		Symbol	Typ	Max	Units
Maximum Forward Voltage	at 10.0A DC	V_F	1.5	1.75	V
Maximum DC Reverse Current	@T$_A$=25°C	I_R	----	10	μA
at rated DC blocking voltage	@T$_A$ =100°C		----	100.0	

Thermal Characteristics (T$_C$=25℃ unless otherwise noted)

Parameter	Symbol	SRA6E	Units
Typical Thermal Resistance (Note 3)	$R_{(JC)}$	6.5	℃/W

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 Case

Ratings And Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

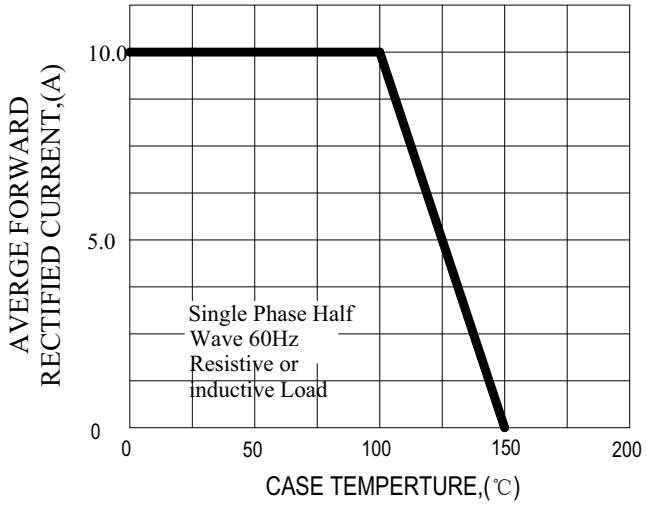


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

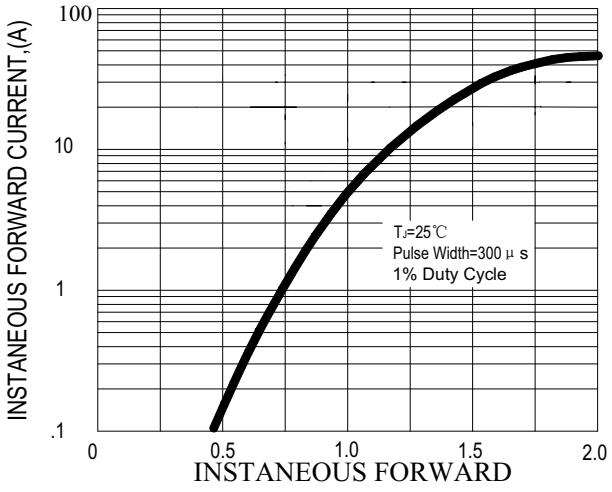


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

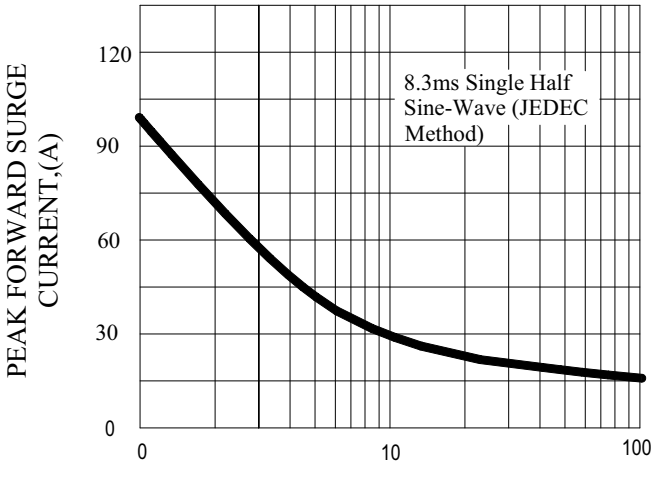


FIG.4-TYPICAL REVERSE CHARACTERISTICS

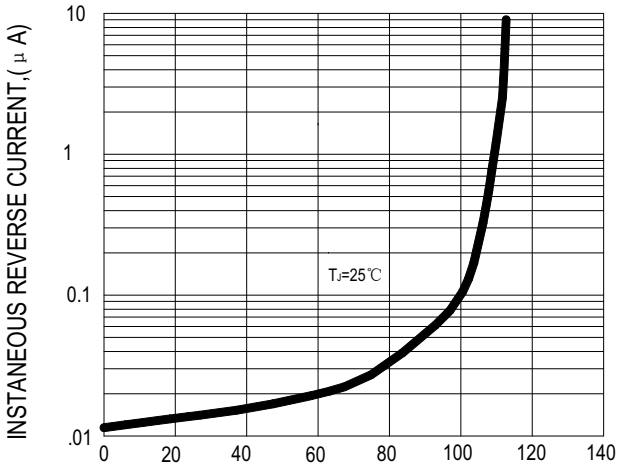
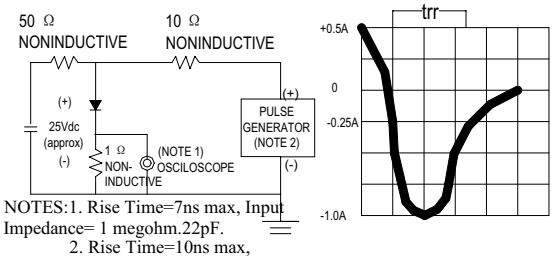


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



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

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