

10.0AMPS. SUPERFAST RECOVERY RECTIFIER

SRA4E

FEATURE

- . 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, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

MAXIMUM RATINGS (T_C=25 °C unless otherwise noted)

Parameter	Symbol	SRA4E	Units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	400	V
Maximum RMS Voltage	$V_{ m RMS}$	280	V
Maximum DC blocking Voltage	$V_{ m DC}$	400	V
Maximum Average Forward Rectified Current at $T_C = 100$ °C	$I_{ m F(AV)}$	10.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{ m FSM}$	120	A
Maximum Reverse Recovery Time (Note 1)	$t_{ m rr}$	30	nS
Typical Junction Capacitance (Note 2)	$C_{ m J}$	50	pF
Operation Junction Temperature and Storage Temperature	$T_{\rm J},T_{ m STG}$	-55 to +175	°C

ELECTRICAL CHARACTERISTICS (T_C=25 °C unless otherwise noted)

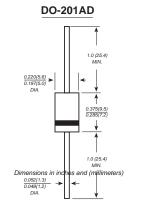
Parameter		Symbol	Тур	Max	Units
Maximum Forward Voltage	at 10.0A DC	$V_{ m F}$	1.10	1.30	V
Maximum DC Reverse Current	@T _A =25°C	$I_{ m R}$		10	μА
at rated DC blocking voltage	$@T_A = 100^{\circ}C$			100.0	

THERMAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

Parameter	Symbol	SRA4E	Units
Typical Thermal Resistance (Note 3)	$R_{ m (JC)}$	6.5	°C/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





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RATING AND CHARACTERISTIC CURVES

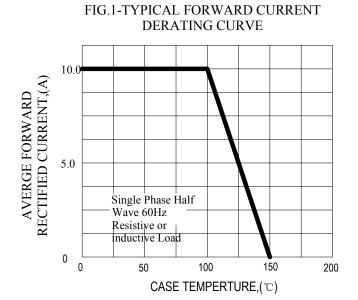


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

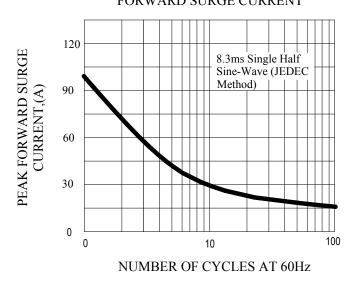
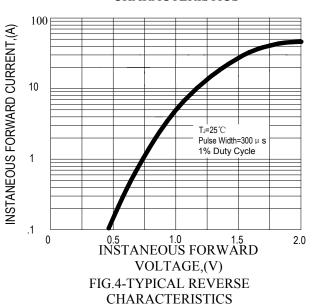
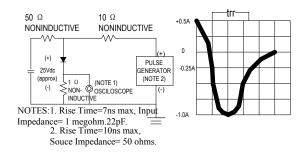


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



NSTANEOUS REVERSE CURRENT OF RATED PEAK REVERSE VOLTAGE,(%)

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



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