SRAS890 THRU SRAS8100

8.0 AMPS. Schottky Barrier Rectifiers

Voltage Range
90 to 100 Volts
Current
8.0 Amperes

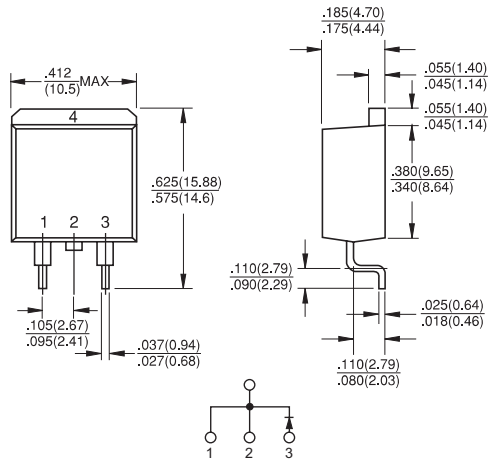
Features

- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability

Mechanical Data

- ✧ Cases: D2PAK molded plastic
- ✧ Epoxy: UL 94V-O rate flame retardant
- ✧ Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed
- ✧ Polarity: As marked
- ✧ High temperature soldering guaranteed: 260°C/10 seconds/.25",(6.35mm) from case
- ✧ Weight: 2.24 grams

D^2PAK



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	SRAS890	SRAS8100	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	90	100	V
Maximum RMS Voltage	V_{RMS}	63	70	V
Maximum DC Blocking Voltage	V_{DC}	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{(AV)}$	8.0		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150		A
Maximum Instantaneous Forward Voltage @8.0A	V_F	0.95		V
Maximum D.C. Reverse Current @ Tc=25℃ at Rated DC Blocking Voltage	I_R	0.1		mA
Typical Thermal Resistance (Note 1)	$R\theta_{JC}$	3.0		℃/W
Typical Junction Capacitance (Note 2)	Cj	165		pF
Operating Junction Temperature Range	T_J	-65 to +150		℃
Storage Temperature Range	T_{STG}	-65 to +150		℃

Notes: 1. Thermal Resistance from Junction to Case Per Leg
2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES (SRAS890 THRU SRAS8100)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

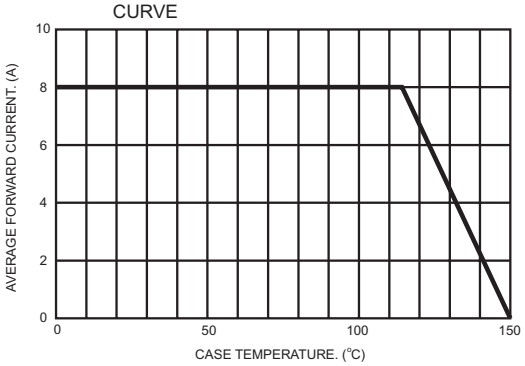


FIG.2- TYPICAL REVERSE CHARACTERISTICS

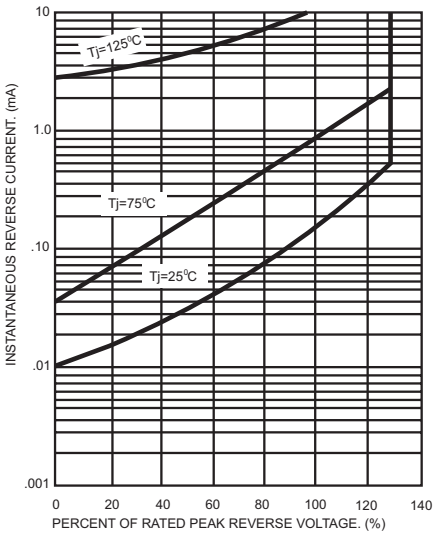


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

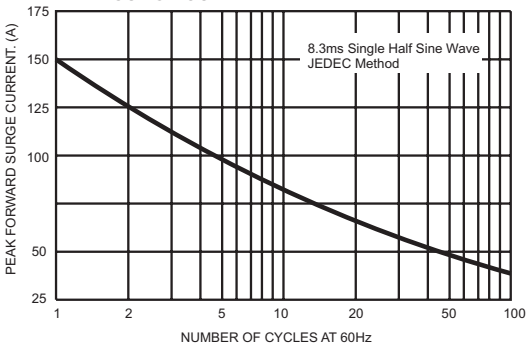


FIG.4- TYPICAL JUNCTION CAPACITANCE

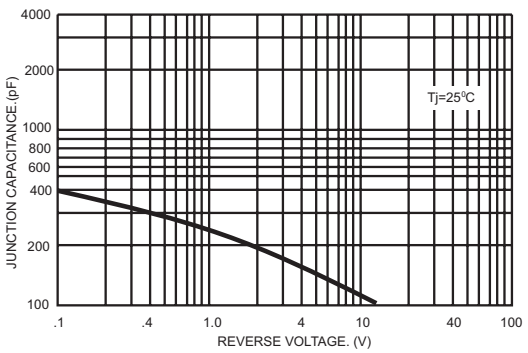


FIG.5- TYPICAL FORWARD CHARACTERISTICS