

### Features

- For surface mounted applications
- Low profile package
- Ideal for automated placement
- Reverse Voltage - 2000 V
- Forward Current - 1 A

### Applications

- power supply
- LED driver
- Battery protector
- adapter
- Voltage protector



### Absolute Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	2000	V
Maximum RMS voltage	V <sub>RMS</sub>	1400	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	2000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load	I <sub>FSM</sub>	30	A
Max Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	1.1	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I <sub>R</sub>	T <sub>a</sub> = 25°C	5.0
		T = 125°C	50
Typical Junction Capacitance (1)	C <sub>j</sub>	20	PF
Typical Thermal Resistance (2)	R <sub>θJA</sub>	85	°C/W
Operating Junction Temperature Range	T <sub>j</sub>	-55 ~ +150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 ~ +150	°C

(1). Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2). P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

**Typical Electrical Characteristic Curves**

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

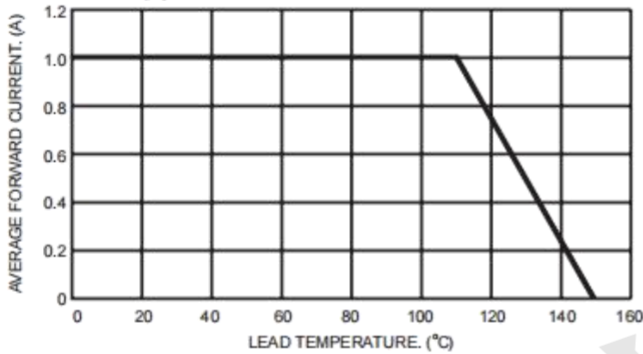


FIG.2- TYPICAL REVERSE CHARACTERISTICS

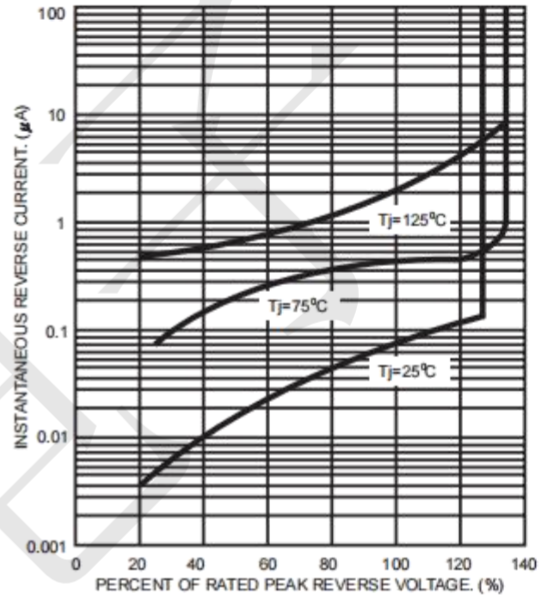


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

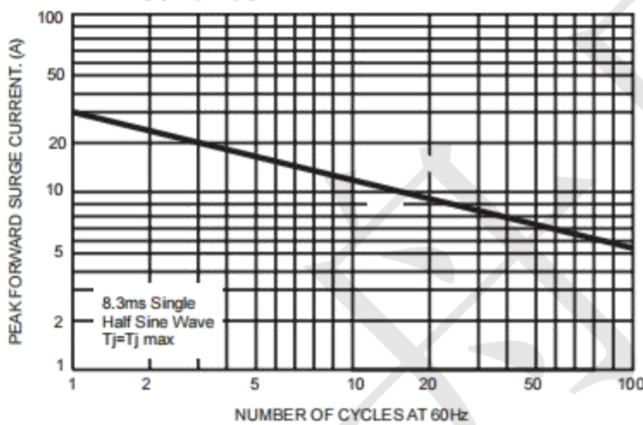


FIG.5- TYPICAL FORWARD CHARACTERISTICS

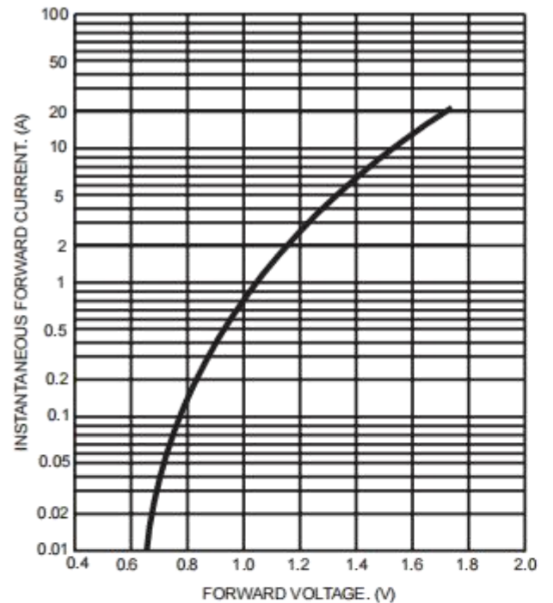


FIG.4- TYPICAL JUNCTION CAPACITANCE

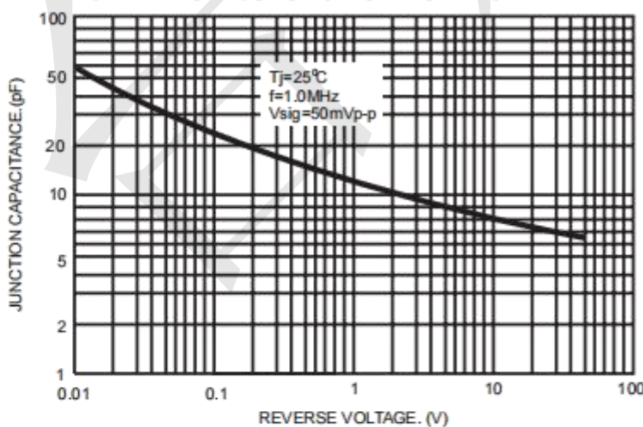
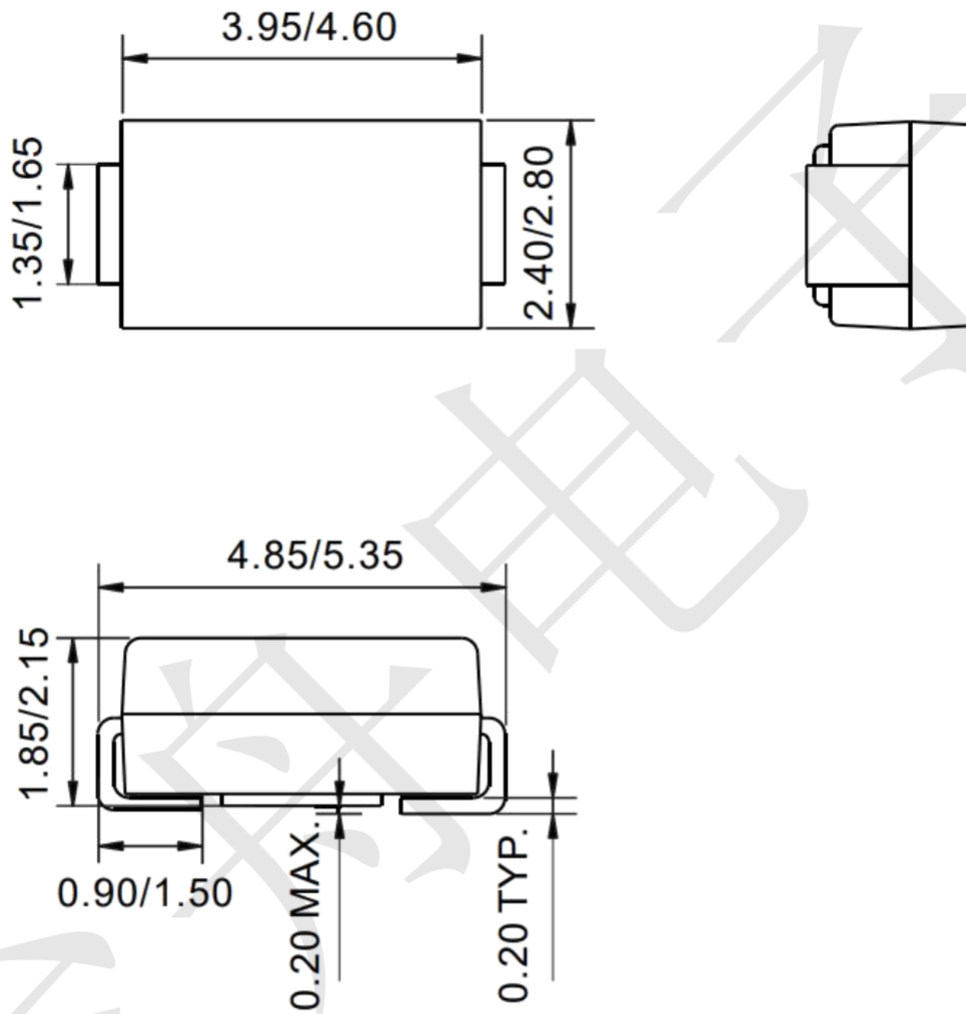


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

**Package Outline Dimensions (unit: mm)**

**SMA**



**Mounting Pad Layout (unit: mm)**

