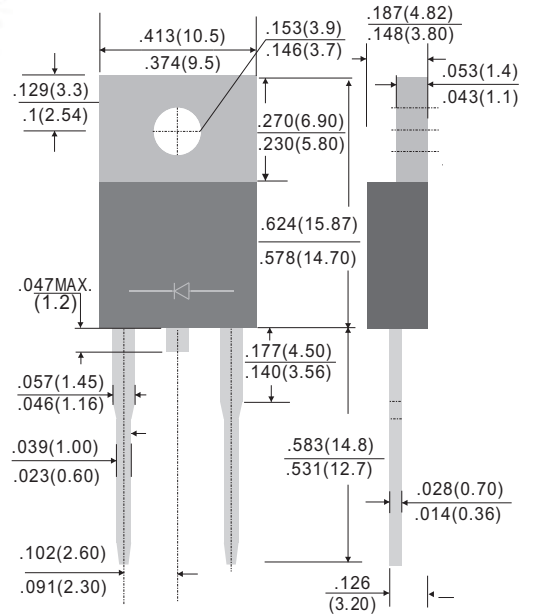


**Mechanical Date**

- Cases: TO-220A
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free Plating (Tin Finish)  
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.899 grams (approximate)



**TO-220A**



Dimensions in inches and (millimeters)

**Features**

- Guardring for overvoltage protection
- Very small conduction losses
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC
- **Pb-Free package is available**  
RoHS product for packing code suffix "G"  
Halogen free product for packing code suffix "H"

MAXIMUM RATINGS (TA=25°C unless otherwise noted)								
PARAMETER	SYMBOL	SR1040	SR1060	SR10100	SR10150	SR10200	UNIT	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	40	60	100	150	200	V	
Maximum RMS voltage	V <sub>RMS</sub>	28	42	70	105	140	V	
Maximum DC blocking voltage	V <sub>DC</sub>	40	60	100	150	200	V	
Maximum average forward rectified current	I <sub>F</sub>	10						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150.0						A
Maximum Instantaneous Forward Voltage IF=10A @ 25°C	V <sub>F</sub>	0.55	0.70	0.85	0.92		V	
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I <sub>R</sub>	0.5 30		0.2 10			mA	
Typical Junction Capacitance(NOTE1)	C <sub>j</sub>	420	360	280	200	180	pF	
Typical Thermal Resistance	R <sub>θJC</sub>	3					°C/W	
Operating Temperature Range	T <sub>J</sub>	-55 to +125			-55 to +150		°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150					°C	

NOTES:1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

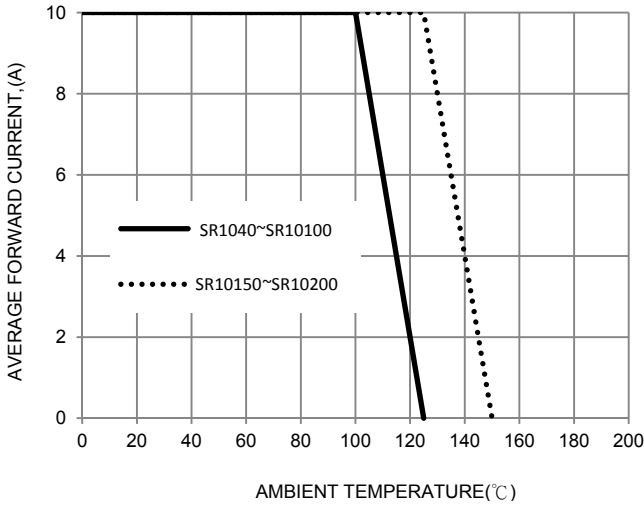


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

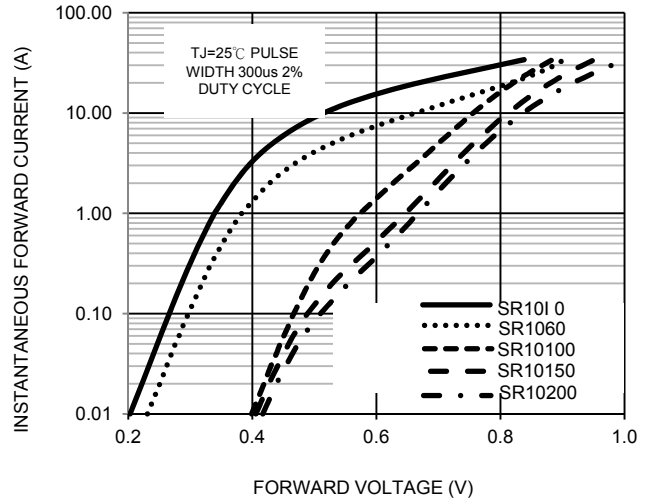


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

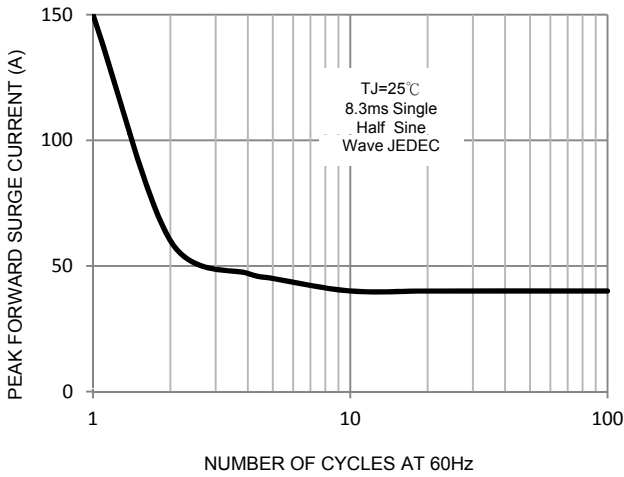


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

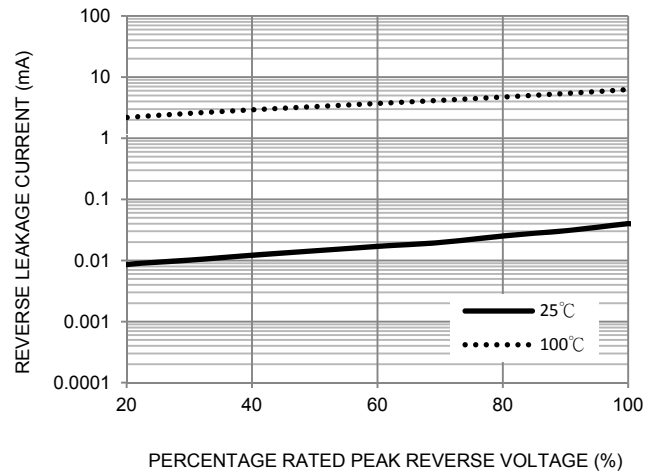


FIG. 5-TYPICAL JUNCTION CAPACITANCE

