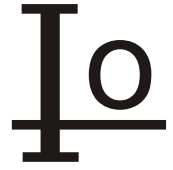


# SR10U45

**LOW VF SCHOTTKY RECTIFIER**  
**VOLTAGE 45 Volts**  
**CURRENT 10.0 Amperes**

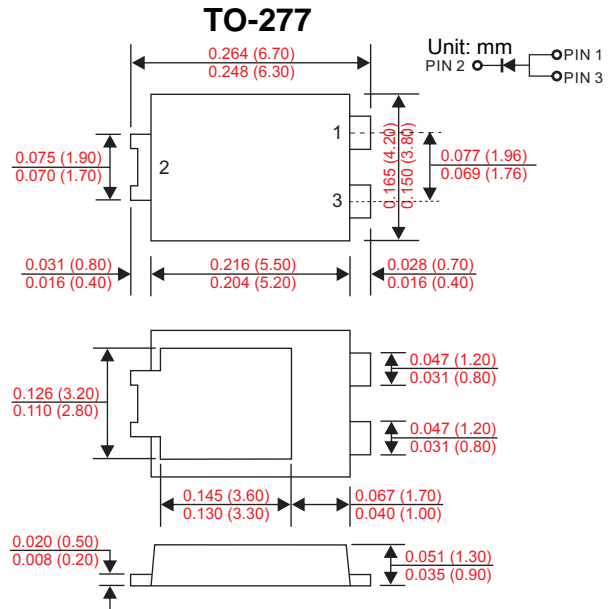


## FEATURES

- Low Forward Voltage Drop.
- Reliable High Temperature Operation
- Softest, fast switching capability.
- 150°C Operating Junction Temperature
- Plastic package has UL flammability classification 94V-0

## MECHANICAL DATA

- Case: Molded Plastic TO-277
- Polarity: Symbols molded or marked on body
- Mounting position : Any
- Weight: 0.092 grams (approx)
- Lead Free: Finish / RoHS Compliant



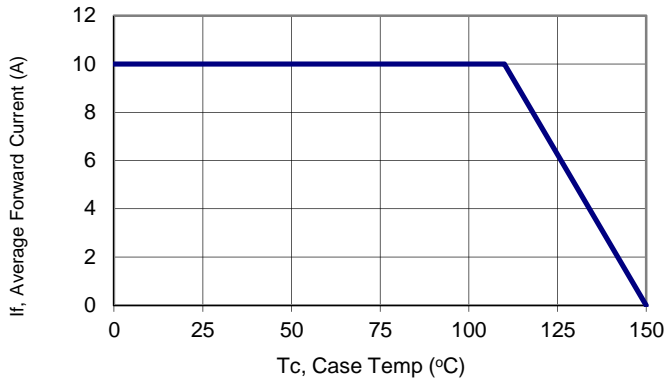
Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

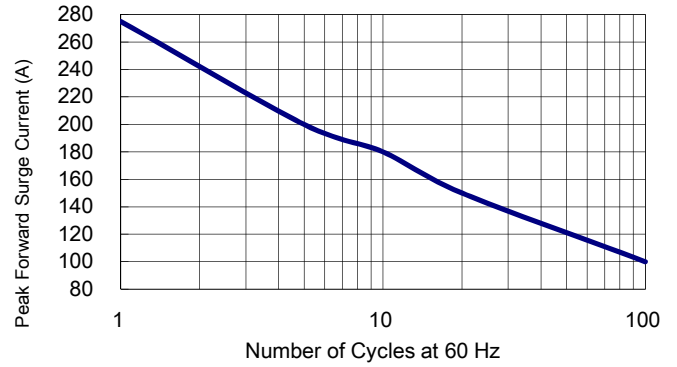
Ratings at 25°C ambient temperature unless otherwise specified.

Characteristic	Symobl	SR10U45	Unit
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	45	V
DC Blocking Voltage	VR		
Maximum RMS Voltage	VRMS	32	V
Forward Rectified Current	I (AV)	10	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	IFSM	275	A
Maximum forward voltage	IF=10A	T <sub>J</sub> = 25°C	0.47
		T <sub>J</sub> = 125°C	0.45
Maximum DC Reverse Current @TC=25°C	IR	0.5	MA
at Rated DC Blocking Voltage @TC=125°C		100	
Typical Thermal Resistance	R0JC	60	°C/W
Operating Temperature Range	TJ	-55to+150	°C
Storage Temperature Range	TSTG	-55to+150	°C

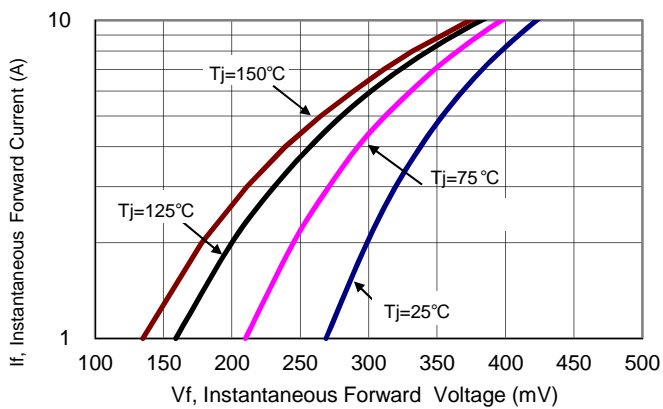
## RATING AND CHARACTERISTIC CUEVES (SR10U45 )



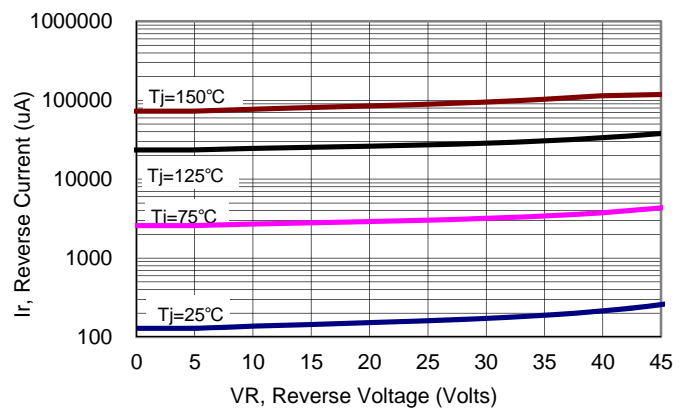
**Figure 1: Current Derating, Case**



**Figure 2: Maximum Repetitive Surge Current**



**Figure 3: Typical Reverse Current**



**Figure 4: Typical Forward Voltage**