

SR220U THRU SR2250U

2.0 AMP. Schottky Barrier Rectifiers

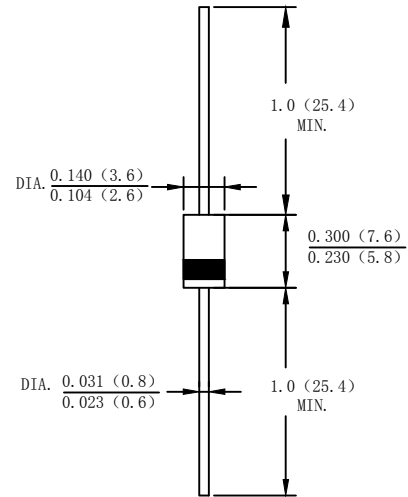
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Moeded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any

DO-15



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SR 220U	SR 230U	SR 240U	SR 250U	SR 260U	SR 280U	SR 2100U	SR 2150U	SR 2200U	SR 2250U	Unit	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	250	V	
Maximum RMS Voltage	V _{RMS}	14	21	26	35	42	56	80	105	140	175	V	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	250	V	
Average Rectified Output Current (Note 1) @T _A =75°C	I _O	2.0										A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	70										A	
Forward Voltage @IF=2.0A	V _{FM}	0.50			0.67		0.82		0.90		0.92	V	
Peak Reverse Current @T _A =25°C	I _R	0.1					0.05					mA	
At Rated DC Blocking Voltage @T _A =100°C		10.0					5.0						
Typical Junction Capacitance	C _J	220			180								pF
Typical Thermal Resistance Junction to Ambient(Note 2)	RθJA	75.0										°C/W	
Operating Temperature Range	T _J	-55 to + 150										°C	
Storage Temperature Range	T _{STG}	-55 to + 150										°C	

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2.P.C.B.mounted with 0.2×0.2" (5.0×5.0mm) copper pad areas

FIG. 1 – FORWARD CURRENT DERATING CURVE

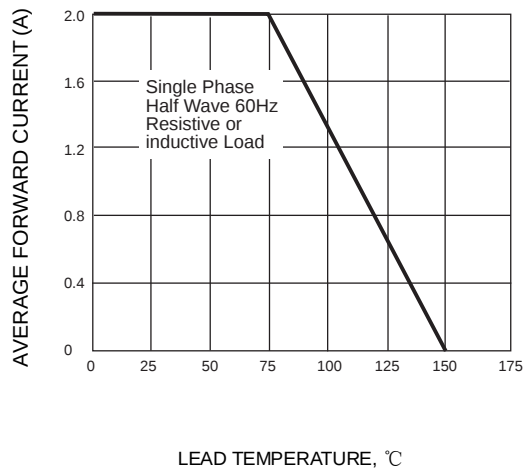


FIG.2-TYPICAL FORWARD CHARACTERISTICS

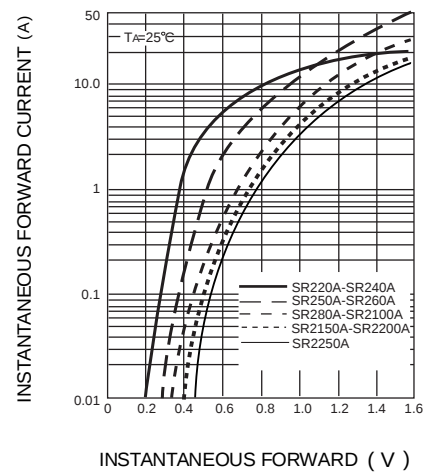


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

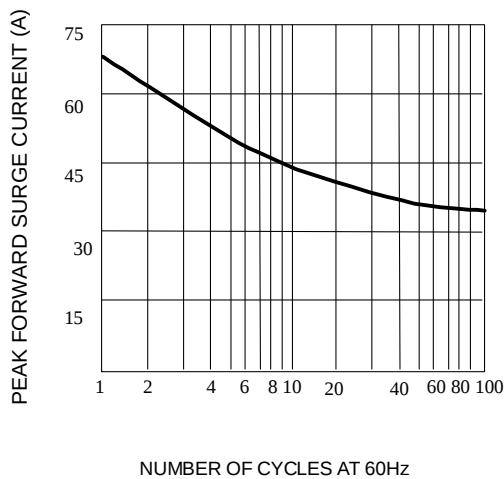


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

