



SR 220U THRU SR2250U

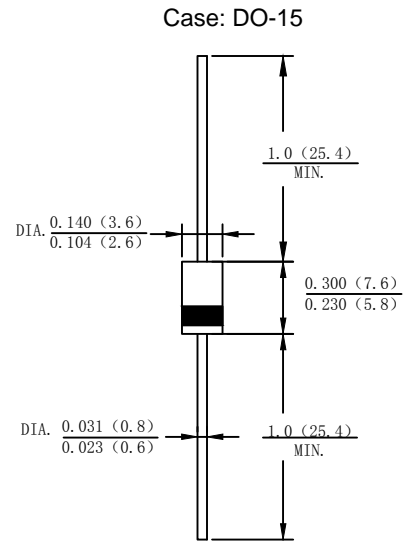
2.0 AMP. Schottky Barrier Rectifiers

Features

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

Mechanical Data

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



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 245U	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	45	50	60	80	100	150	200	250	V	
Maximum RMS Voltage	V_{RMS}	14	21	26	31.5	35	42	56	70	105	140	175	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	250	V	
Average Rectified Output Current (Note 1) @ $T_L=120^\circ\text{C}$	$I_{F(AV)}$	2.0											A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave @ $T_j=125^\circ\text{C}$ Superimposed On Rated Load (JEDEC Method)	I_{FSM}	70											A	
Non-Repetitive Peak Forward Surge Current 1.0ms Single half sine-wave @ $T_j=125^\circ\text{C}$ Superimposed On Rated Load (JEDEC Method)	I_{FSM}	56											A	
10000 times of the wave surge current (time width 1ms, time interval 3s)	I_{FSM}	140											A	
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	112											A	
Forward Voltage @ $I_F=2.0\text{A}$	V_{FM}	52.5			67			82			90		92	V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	I_R	0.1						0.05						mA
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		10.0						5.0						
Typical Junction Capacitance	C_J	100						50						pF
Typical Thermal Resistance Junction to Ambient (Note 2)	$R_{\theta JA}$	75.0											$^\circ\text{C/W}$	
Operating Temperature Range	T_J	-55 to + 150											$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-55 to + 150											$^\circ\text{C}$	

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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



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FIG. 1 – FORWARD CURRENT DERATING CURVE

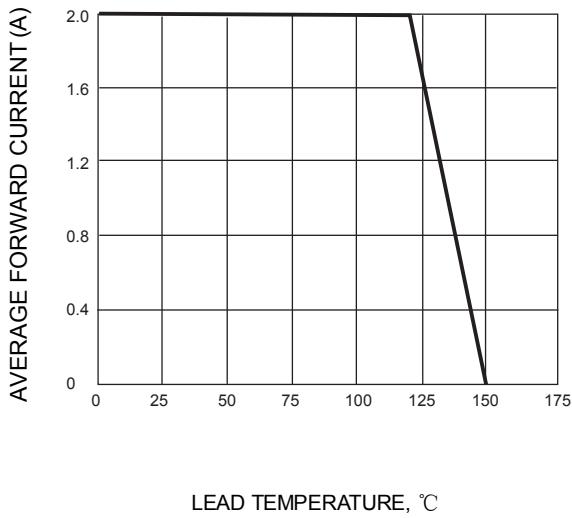


FIG.2-TYPICAL FORWARD CHARACTERISTICS

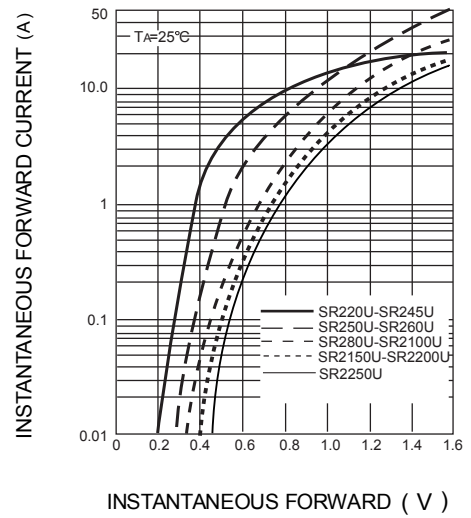


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

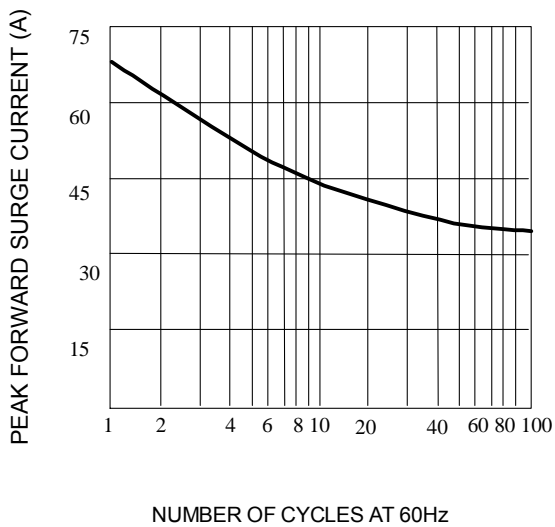
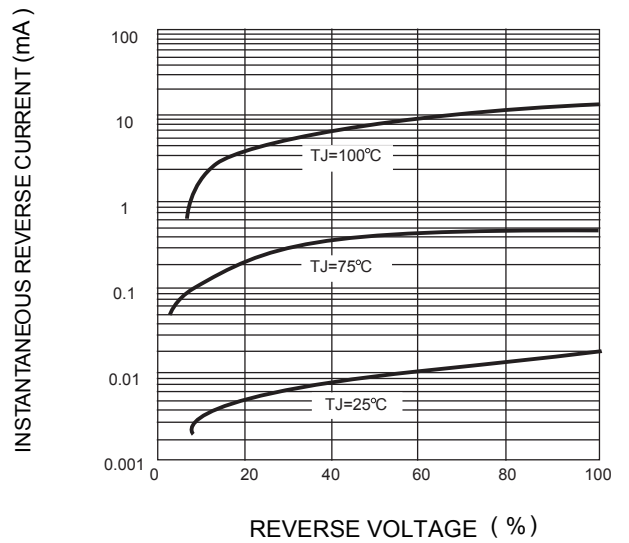


FIG. 4 – TYPICAL JUNCTION CAPACITANCE





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