
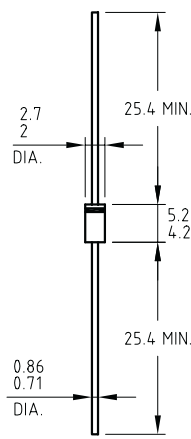


0.5 Amp. Schottky Barrier Rectifiers

 RoHS <small>COMPLIANCE</small>	DO-41 (Plastic)	Voltage 20 V to 150 V	Current 0.5 A
		<ul style="list-style-type: none"> Low power loss, high efficiency. High current capability, low VF High reliability High surge current capability Epitaxial construction Guard-ring for transient protection For use in low voltage, high frequency inverter, free wheeling, and polarity protection application 	
Dimensions in mm.		MECHANICAL DATA <ul style="list-style-type: none"> Cases: DO-41 molded plastic Epoxy: UL 94V-0 rate flame retardant Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed Polarity: Color band denotes cathode High temperature soldering guaranteed: 260 °C/10 seconds/9.5 mm lead lengths at 5 lbs., (2.3 Kg) tension Weight: 0.33 g. 	

Maximum Ratings and Electrical Characteristics at 25 °C

		SR 002	SR 004	SR 006	SR 010	SR 015
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150
V_{RMS}	Maximum RMS Voltage (V)	14	28	42	70	105
V_{DC}	Maximum DC Blocking Voltage (V)	20	40	60	100	150
$I_{F(AV)}$	Max. Average Forward Rectifier Current (See graphic)	0.5 A				
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	50 A				
C_j	Typical Junction Capacitance (Note 2)	110 pF	80 pF	65 pF		
T_j	Operating Temperature Range	-65°C to +125°C		-65°C to +150°C		
T_{stg}	Storage Temperature Range	-65°C to +150°C				

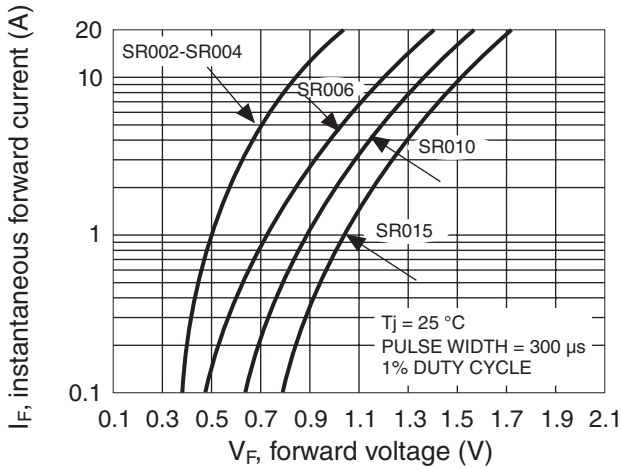
Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage $I_F = 2$ A	0.55 V	0.70 V	0.85 V	0.95 V
I_R	Maximum DC Reverse Current $T_a = 25$ °C	0.5 mA			0.1 mA
	at Rated DC Blocking Voltage $T_a = 125$ °C	10 mA	5.0 mA	2.0 mA	
$R_{th(j-a)}$	Typical Thermal Resistance (Note 1)	50 °C/W			

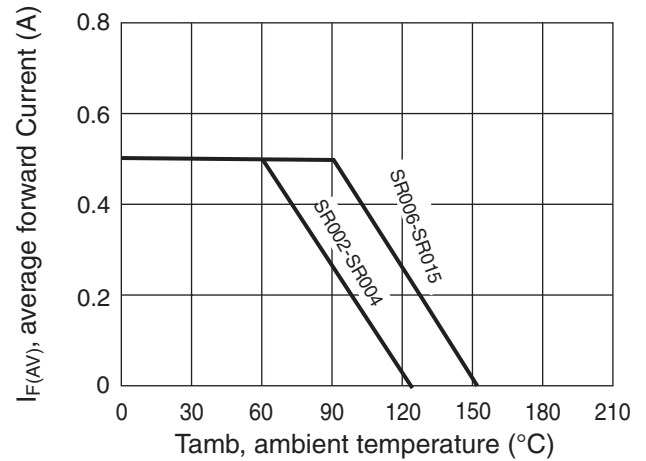
NOTES: 1. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

Rating And Characteristic Curves

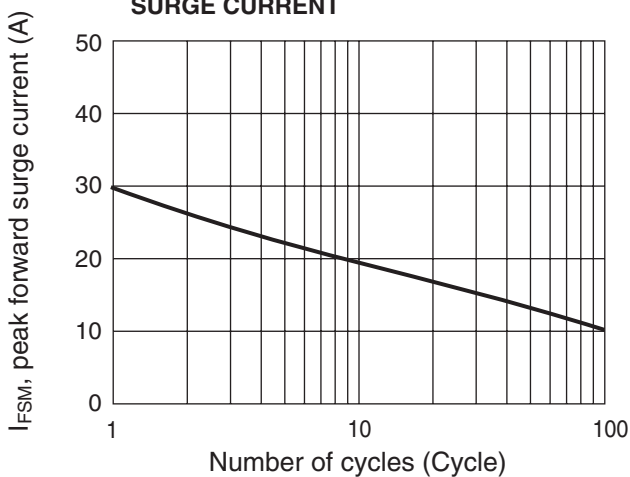
TYPICAL FORWARD CHARACTERISTIC



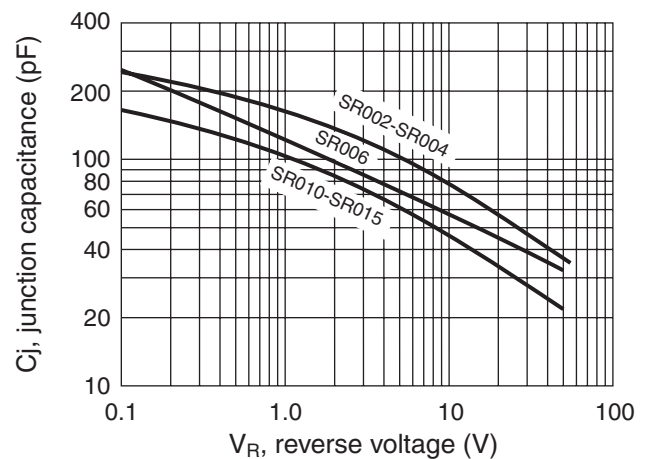
MAXIMUM FORWARD CURRENT DERATING CURVE



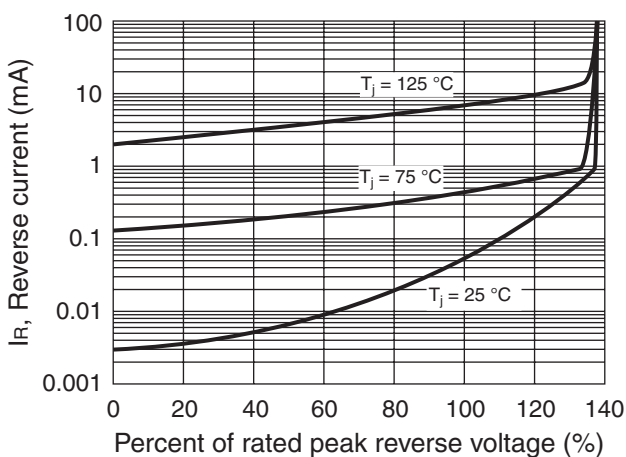
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC

