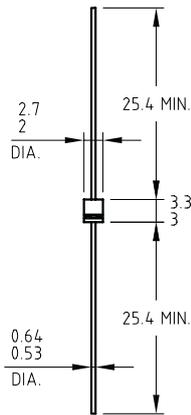


1.0 Amp. Schottky Barrier Rectifiers

 RoHS COMPLIANCE	DO-41 Mini	Voltage 20 V to 150 V	Current 1.0 A
		<ul style="list-style-type: none"> • Glass passivated chip junction. • High efficiency, Low VF • High current capability • High reliability • High surge current capability • Low power loss 	
		MECHANICAL DATA <ul style="list-style-type: none"> • Cases: Molded plastic • Epoxy: UL 94V0 rate flame retardant • Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed • Polarity: Color band denotes cathode end • High temperature soldering guaranteed: 260 °C/10 seconds/9.5mm lead lengths at 2.3kg tension • Mounting position: Any • Weight: 0.20 gram 	
Dimensions in mm.			

Maximum Ratings and Electrical Characteristics at 25 °C

		SRT 12	SRT 14	SRT 16	SRT 110	SRT 115
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
$I_{F(AV)}$	Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_A = 55\text{ °C}$	1.0 A				
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	25 A				
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	110 pF	80 pF	28 pF		
T_j	Operating Temperature Range	-65 to +125 °C		-65 to +150 °C		
T_{stg}	Storage Temperature Range	-65 to +150 °C				

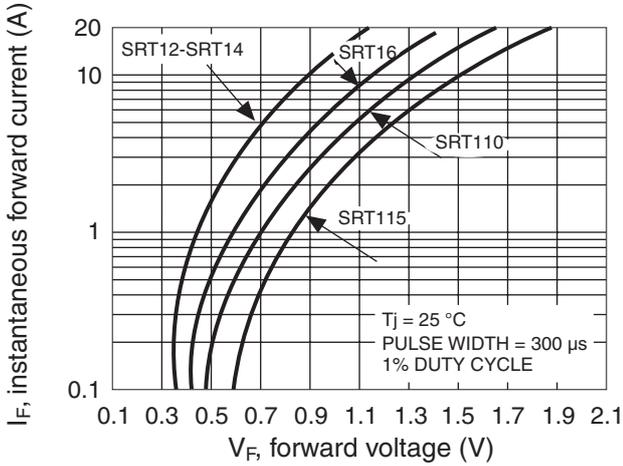
Electrical Characteristics at $T_{amb} = 25\text{ °C}$

V_F	Maximum Instantaneous Forward Voltage @ $I = 1.0\text{ A}$	0.55 V	0.70 V	0.80 V	0.90 V
I_R	Maximum DC Reverse Current @ $T_a = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_a = 125\text{ °C}$	10 μA 110 μA	5 μA 80 μA	0.1 μA 2.0 μA	
$R_{th(j-a)}$	Typical Thermal Resistance (See note)	50 °C/W			

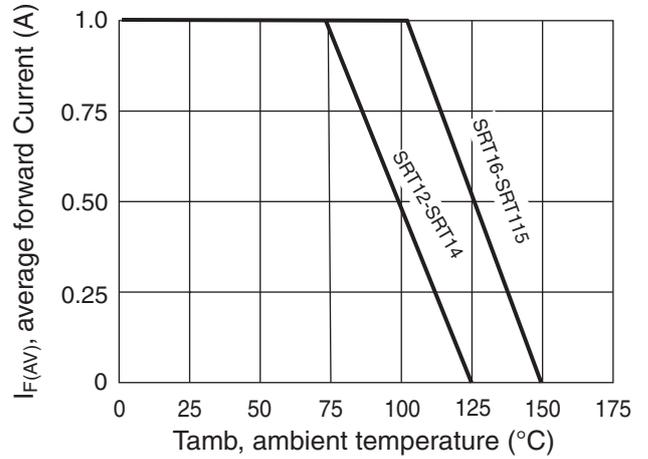
NOTE: Mounted on Cu-Pad size 5mm x 5mm on P.C.B.

Rating And Characteristic Curves

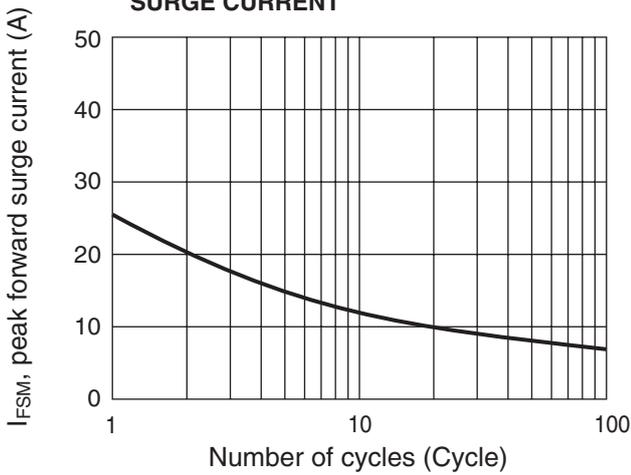
TYPICAL FORWARD CHARACTERISTIC



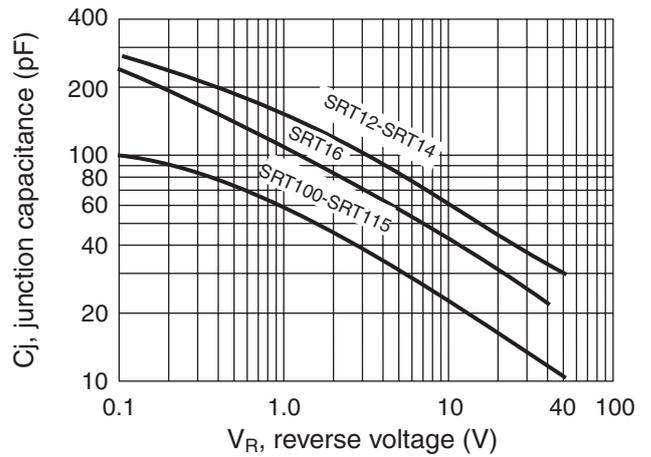
MAXIMUM FORWARD CURRENT DERATING CURVE



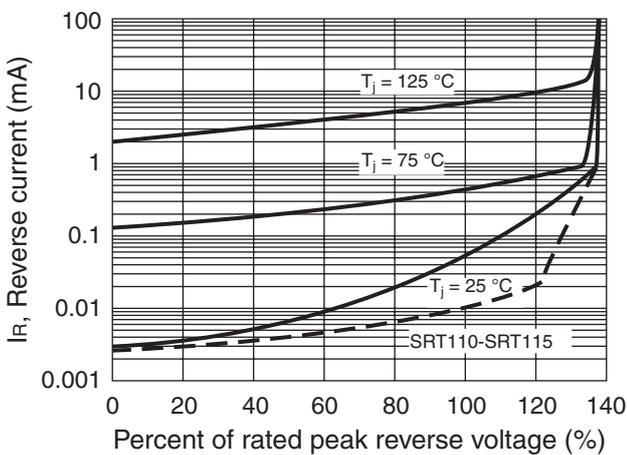
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC

