

SR280 THRU SR2200
Schottky Barrier Diodes

Revision: A

General Description		Features				
This Schottky diode is for use in low voltage, high frequency rectifier of switching mode power supplier, DC/DC converters and polarity protection application.		<ul style="list-style-type: none"> ● Case: DO-15, molded epoxy body ● Terminal: Matte tin plated leads ● Polarity: See mark on body 				
<ul style="list-style-type: none"> ● Very small conduction losses ● Low Forward Voltage Drop ● High forward surge capacity 						
Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)						
Parameter	Symbol	SR280	SR2100	SR2150	SR2200	Units
Maximum repetitive peak reverse voltage	V_{RRM}	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	80	100	150	200	V
Maximum average forward rectifier current	$I_{F(AV)}$	2.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50				A
Operating Junction Temperature Range	T_J, T_{STG}	-50 to 125				°C

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)				
Parameter	Condition	Symbol	SR280-SR2200	Units
Maximum instantaneous forward voltage	$I_F=2\text{A}$	V_F	0.85	V
Maximum DC reverse current at blocking voltage	$T_C=25^\circ\text{C}$	I_R	0.5	mA
	$T_C=100^\circ\text{C}$		20	
Typical Junction Capacitance	4.0V, 1.0MHz	C_J	180	pF

Note

1. Pulse test: 300 μs pulse width, 1% duty cycle

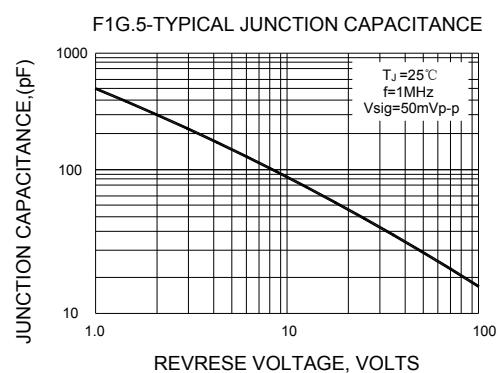
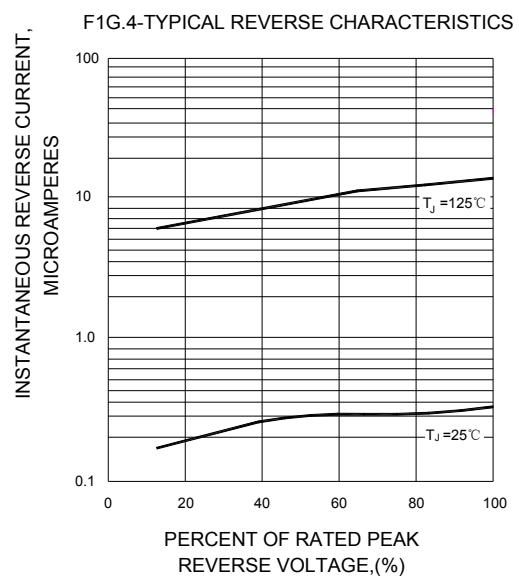
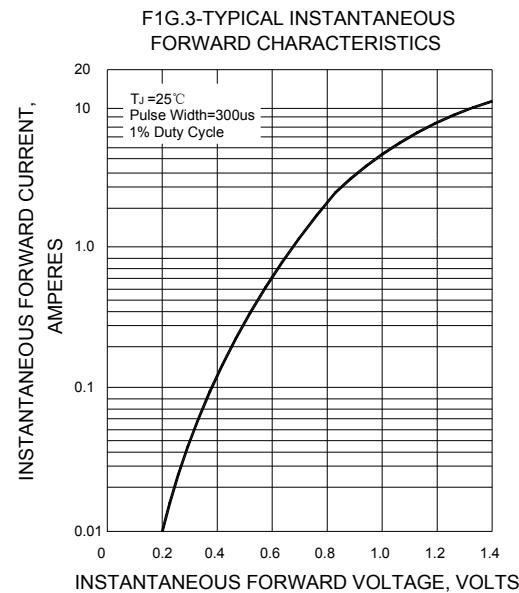
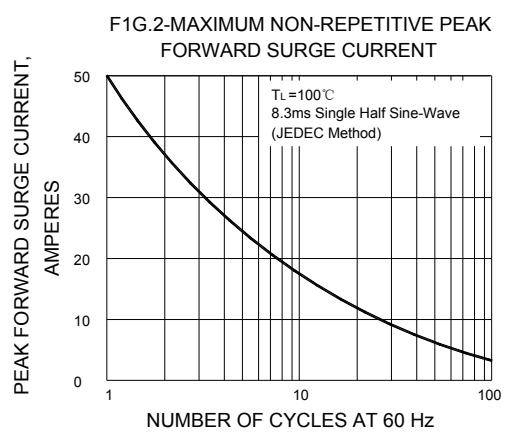
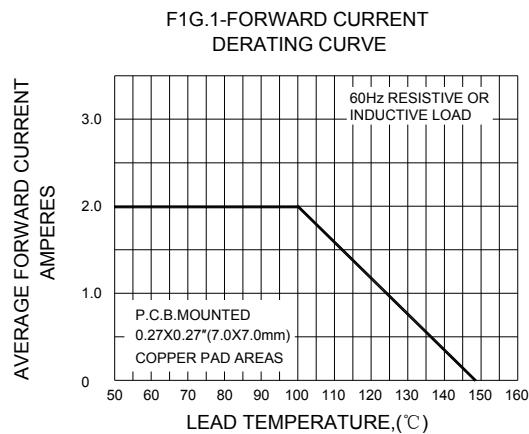
Thermal Characteristic ($T_A=25^\circ\text{C}$ unless otherwise noted)			
Parameter	Symbol	SR280 THRU SR2200	Units
Typical Thermal resistance	$R_{\theta JA}^{(1)}$	45	°C/W

Note

1. Thermal resistance from junction to lead vertical PCB mounted 0.375" (9.5 mm) lead length with 1.5" \times 1.5" (38 mm \times 38mm) copper pads

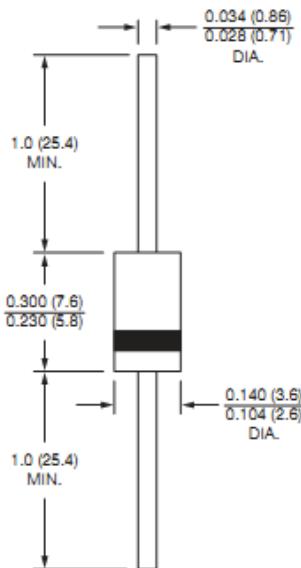
SR280 THRU SR2200

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



Package Outline Dimensions in inches and millimeters

DO-15(DO-204AC)



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