



SR32C THRU SR325C

3.0 AMP Surface Mount Schottky Barrier Rectifiers

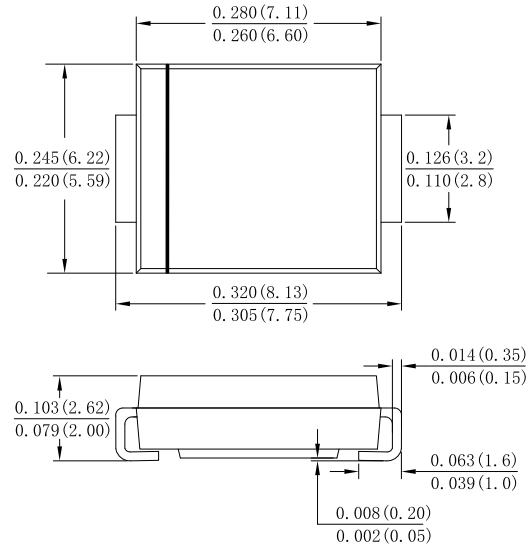
Features

- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Molded plastic SMC
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: as marked as case
- Mounting Position: Any
- Making: Type Number

Case: SMC(DO-214AB)



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	SR32C	SR33C	SR34C	SR345C	SR35C	SR36C	SR38C	SR310C	SR315C	SR320C	SR325C	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	28	31	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 @ $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	3.0											A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80											A	
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	26.56											A^2s	
Forward Voltage @ $I_F=3.0\text{A}$	V_{FM}	0.55			0.7			0.85	0.92	0.95			V	
Peak Reverse Current @ $T_J = 25^\circ\text{C}$	I_R	0.1						0.01						mA
At Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$		10						0.25						
Typical Junction Capacitance (Note 1)	C_J	12											pF	
Typical Thermal Resistance per leg (Note2)	$R_{\theta JL}$	18											$^\circ\text{C}/\text{W}$	
Operating Temperature Range	T_J	-55 to +150											$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-55 to +150											$^\circ\text{C}$	

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
2. Thermal Resistance from Junction to Ambient at 0.375(9.5mm) lead length .



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Fig. 1 Forward Current Derating Curve

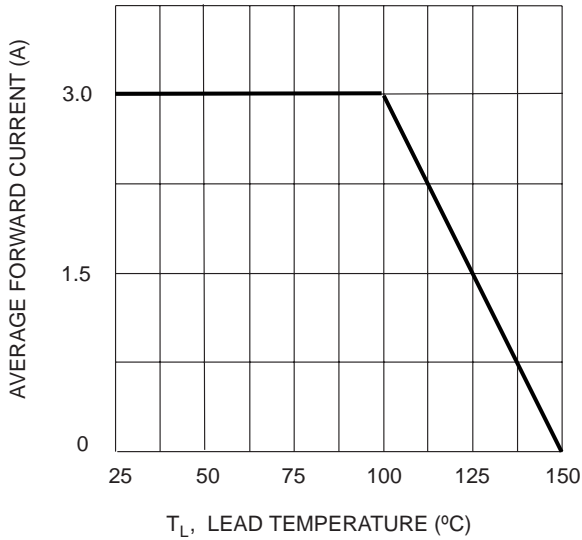


Fig. 2 Typ. Forward Characteristics

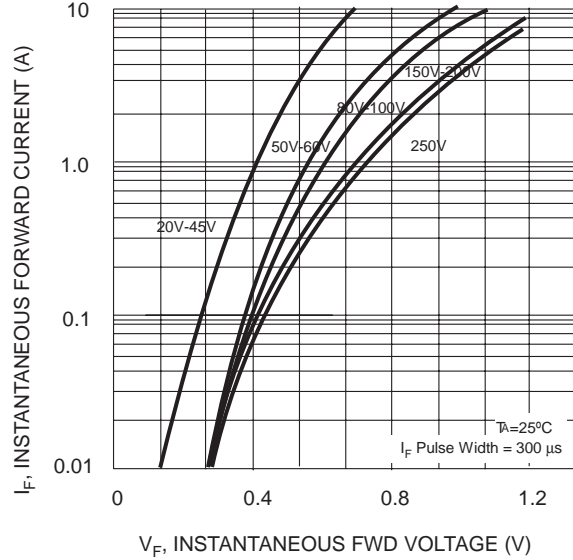


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

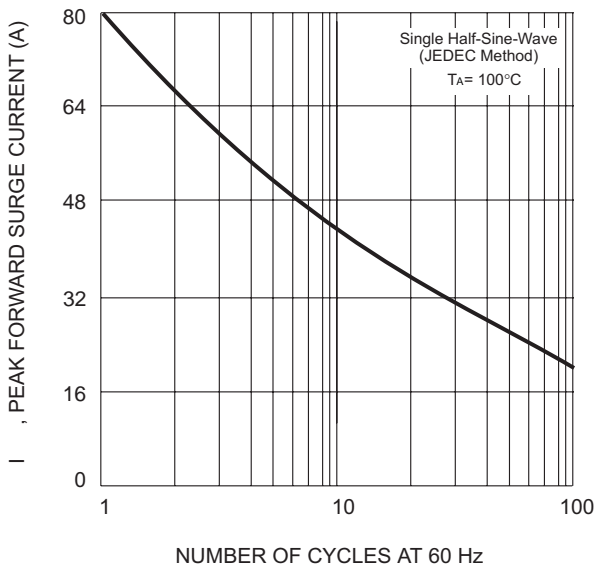


FIG.4 TYPICAL REVERSE CHARACTERISTIC

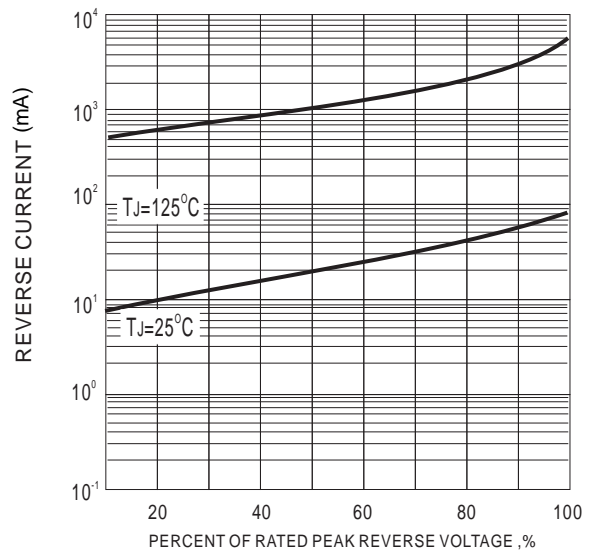
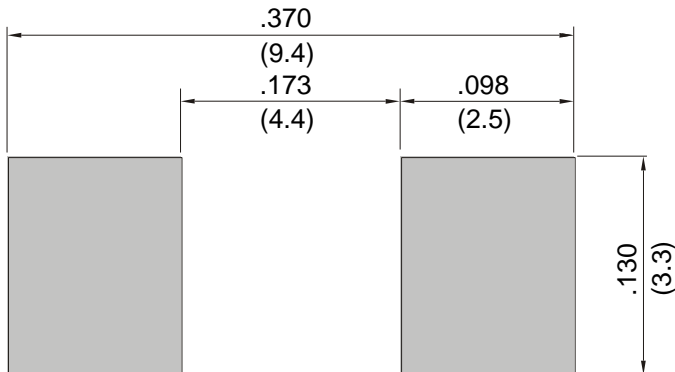


FIG.5 MOUNTING PAD LAYOUT





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