



SR32CU THRU SR325CU

3.0 AMP Surface Mount Schottky Barrier Rectifiers

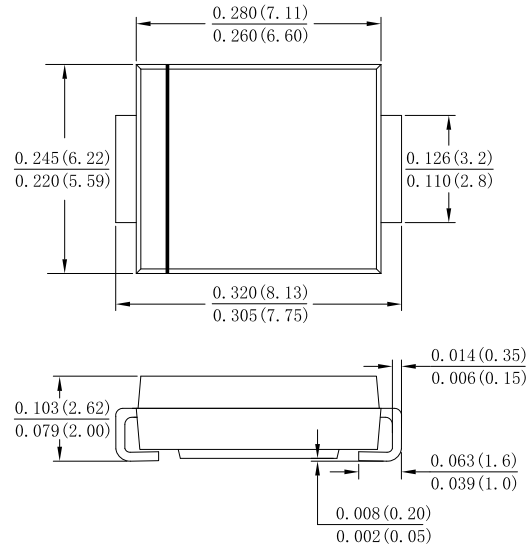
Features

- 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 on 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 (Note1)	SYMBOL	SR 32CU	SR 33CU	SR 34CU	SR 345CU	SR 35CU	SR 36CU	SR 38CU	SR 310CU	SR 315CU	SR 320CU	SR 325CU	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 @ $T_L = 100^\circ C$	$I_{F(AV)}$	3.0											A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	90											A	
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	33.615											A ² s	
Forward Voltage @ $I_F = 3.0A$	V_{FM}	0.5			0.67			0.8	0.90		0.92		V	
Peak Reverse Current @ $T_J = 25^\circ C$	I_R	0.1						0.01						mA
At Rated DC Blocking Voltage @ $T_J = 125^\circ C$		10						0.25						
Typical Junction Capacitance (Note 2)	C_J	120											pF	
Typical Thermal Resistance per leg (Note 3)	$R_{\theta JL}$	18											°C/W	
Operating Temperature Range	T_J	-55 to +150											°C	
Storage Temperature Range	T_{STG}	-55 to +150											°C	

Note: 1. "H": Halogen Free

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. Thermal Resistance from Junction to Ambient at 0.375(9.5mm) lead length .



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Fig. 1 Forward Current Derating Curve

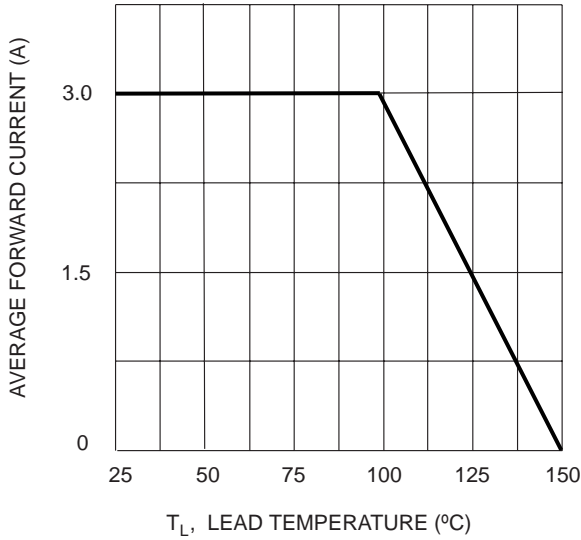


Fig. 2 Typ. Forward Characteristics

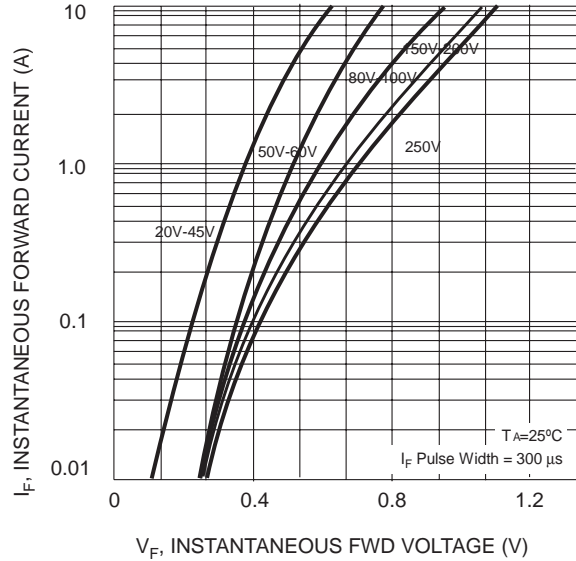


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

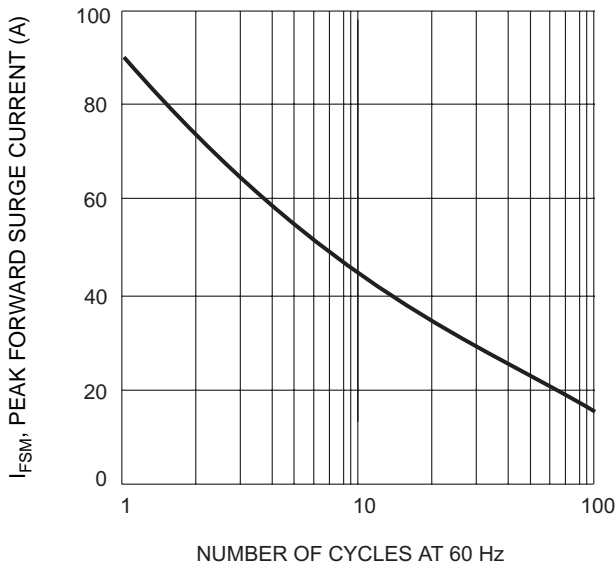


FIG.4 TYPICAL REVERSE CHARACTERISTIC

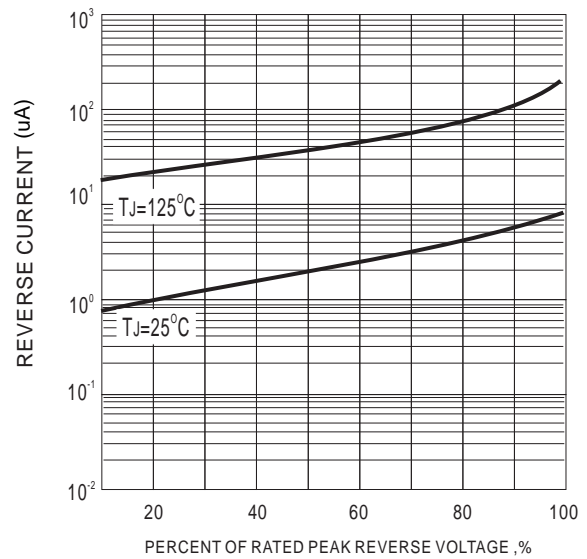
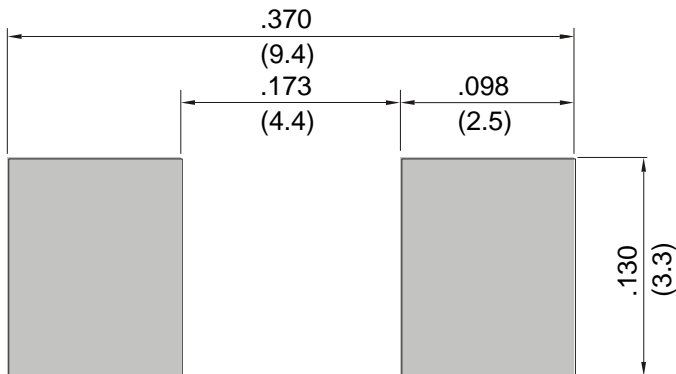


FIG.5 MOUNTING PAD LAYOUT





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