SR32C THRU SR325C

3.0 AMP Surface Mount Schottky Barrier Rectifiers

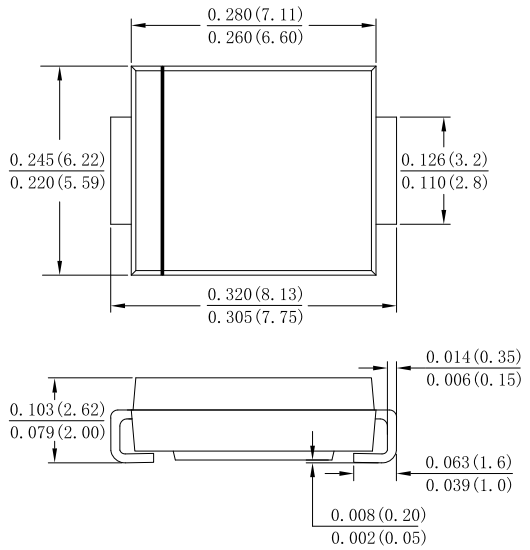
Features

- 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℃ 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℃	IF(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 < 8.3ms)	I^2t	26.56											A^2s
Forward Voltage @IF=3.0A	V_{FM}	0.55				0.7		0.85		0.92		0.95	V
Peak Reverse Current @T_J =25℃	I_R	0.1						0.01					mA
At Rated DC Blocking Voltage @T_J =125℃		10						0.25					
Typical Junction Capacitance (Note 1)	C_J	12											pF
Typical Thermal Resistance per leg (Note2)	$R_{\theta JL}$	18											℃/W
Operating Temperature Range	T_J	-55 to+150											℃
Storage Temperature Range	T_{STG}	-55 to +150											℃

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 .

Fig. 1 Forward Current Derating Curve

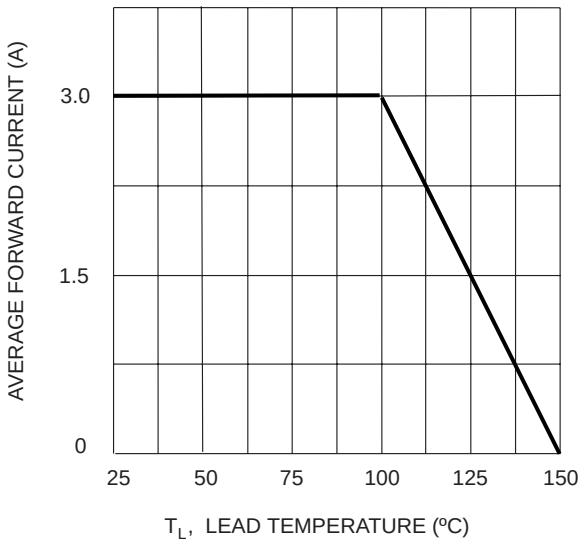


Fig. 2 Typ. Forward Characteristics

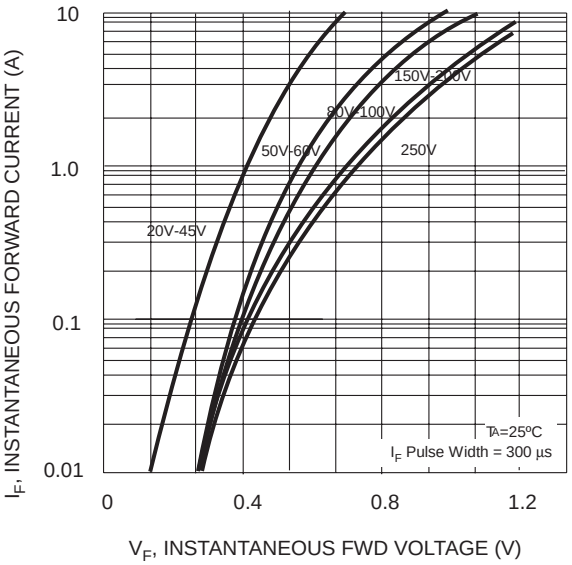


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

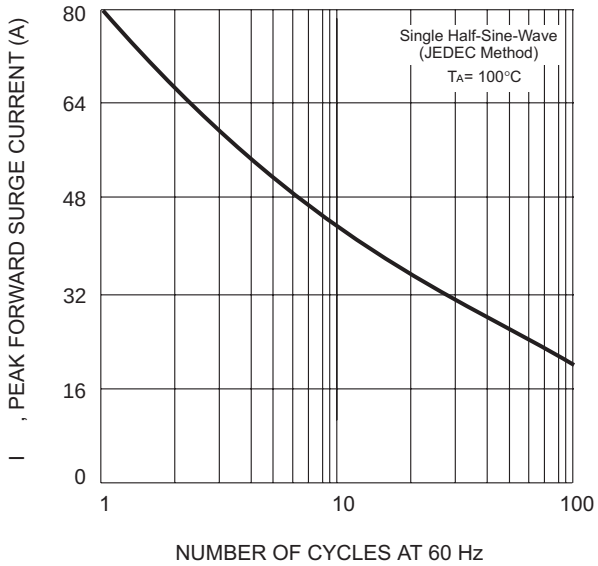


FIG.4TYPICALREVERSE CHRACTERISTIC

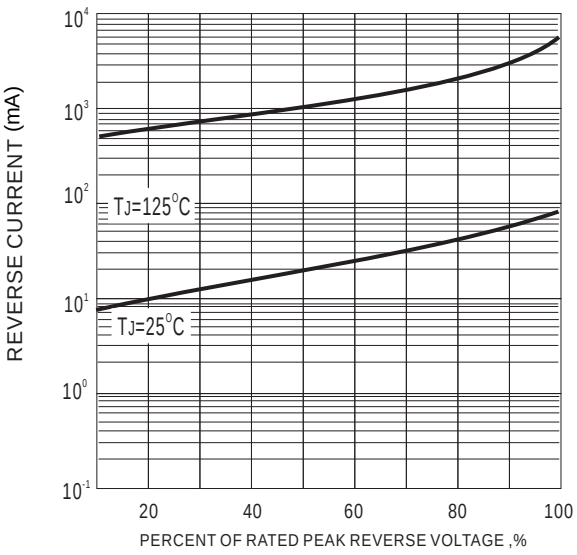
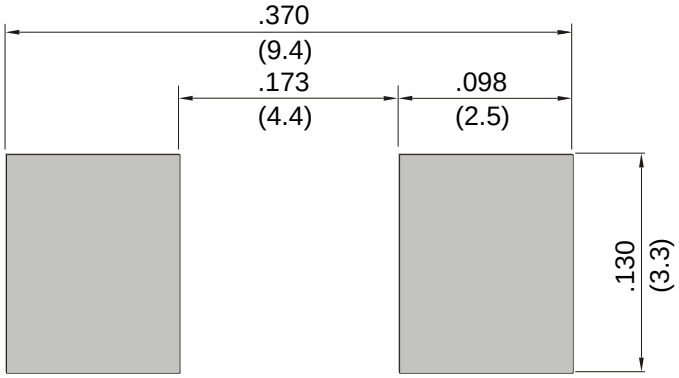


FIG.5 MOUNTING PAD LAYOUT



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