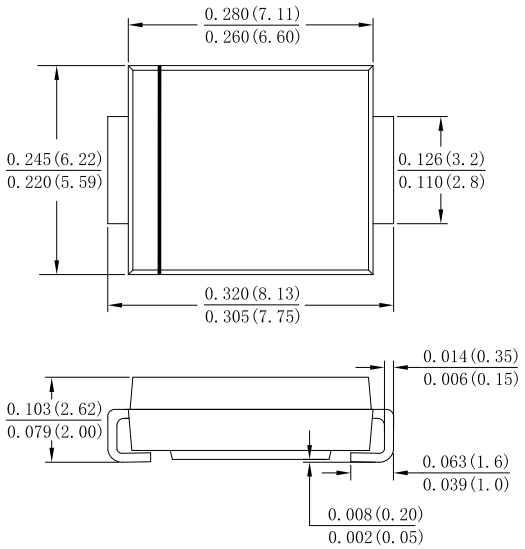
SR34CUQ THRU SR325CUQ

3.0 AMP Surface Mount Schottky Barrier Rectifier

Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- AEC-Q101 qualified available

Case: SMC(DO-214AB)



dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded plastic SMC
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number

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	SR34CUQ	SR35CUQ	SR36CUQ	SR38CUQ	SR310CUQ	SR315CUQ	SR320CUQ	SR325CUQ	Unit
	Code	SR34CU	SR35CU	SR36CU	SR38CU	SR310CU	SR315CU	SR320CU	SR325CU	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	50	60	80	100	150	200	200	V
Maximum RMS Voltage	V_{RMS}	28	35	42	56	70	105	140	140	V
Maximum DC Blocking Voltage	V_{DC}	40	50	60	80	100	150	200	200	V
Average Rectified Output Current @T_L =100℃	$I_{F(AV)}$	3.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	90								A
Rating for fusing (t<8.3ms)	I^2t	33.6								A^2s
Forward Voltage @IF=3.0A	V_{FM}	0.5	0.67		0.82		0.9	0.92		V
Peak Reverse Current @T_A =25℃	I_R	0.1			0.05					mA
At Rated DC Blocking Voltage @T_A =100℃		10			5					
Typical Junction Capacitance (Note 1)	C_J	130	110		80		50			pF
Typical Thermal Resistance	$R_{\theta JA}$	80								℃/W
Operating Temperature Range	T_J	-55 to+125			-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

Fig. 1 Forward Current Derating Curve

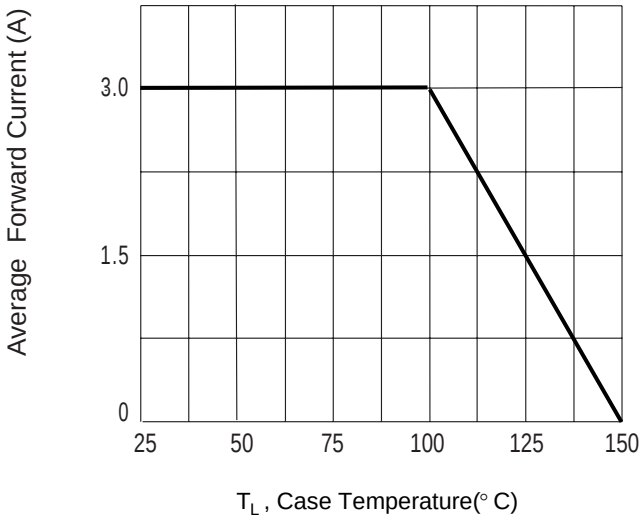


Fig. 2 Typ. Forward Characteristics

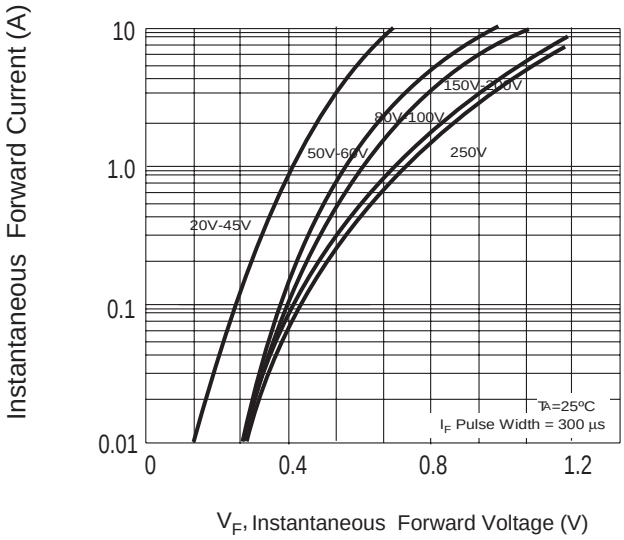


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

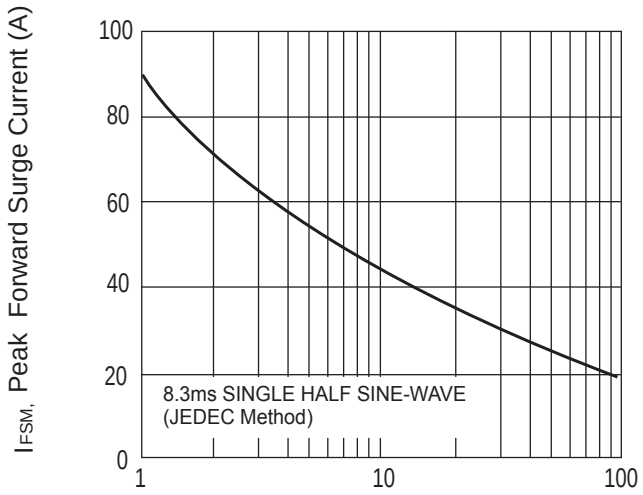


Fig.4 Typical Reverse Chracteristics

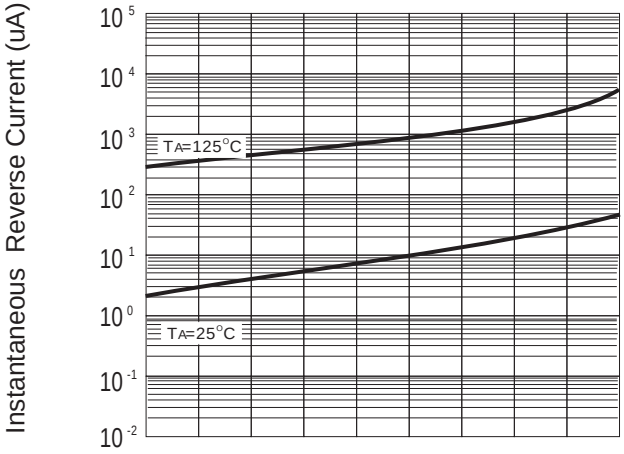
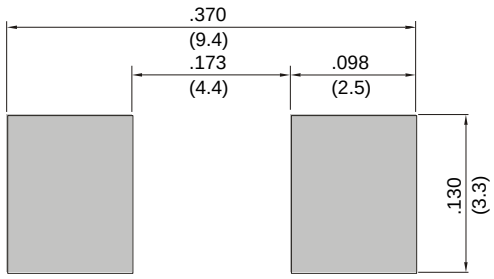


Fig.5 Mounting PAD Layout



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