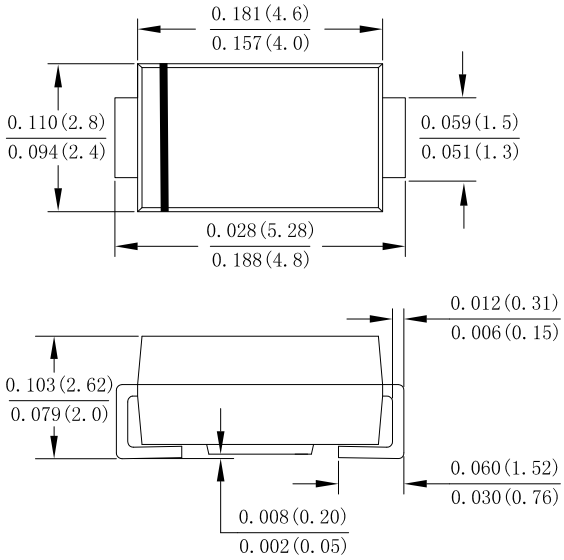
SS32 THRU SS320

3.0 AMP Surface Mount Schottky Barrier Rectifier

Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 80A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Case: SMA(DO-214AC)



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded plastic SMA
- 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	SS 32	SS 33	SS 34	SS 345	SS 35	SS 36	SS 38	SS 310	SS 315	SS 320	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	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
Rating for fusing (t<8.3ms)	I^2t	26.56										A^2s
Forward Voltage @IF=3.0A (Note1)	V_{FM}	0.55				0.7		0.85		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	110						70				pF
Typical Thermal Resistance	$R_{\theta JA}$	110										℃/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

Fig. 1 Forward Current Derating Curve

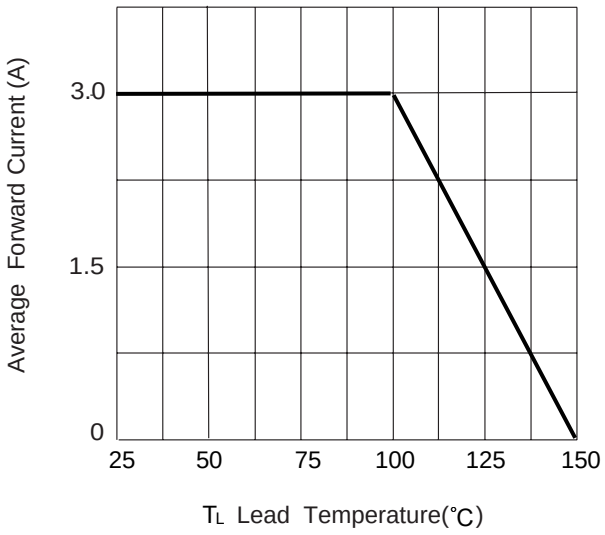


Fig. 2 Typ. Forward Characteristics

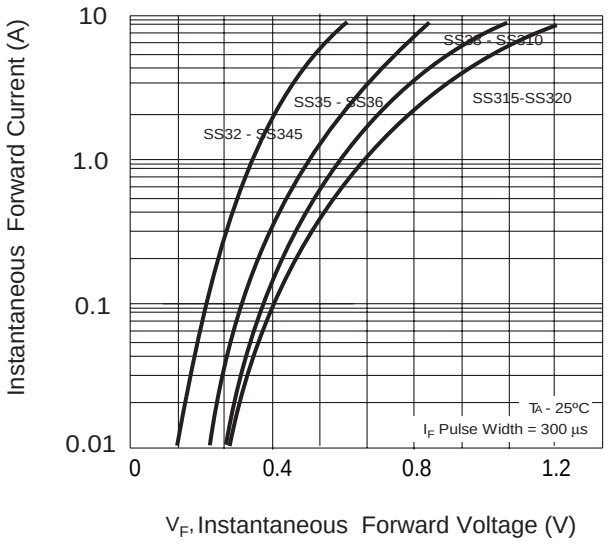


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

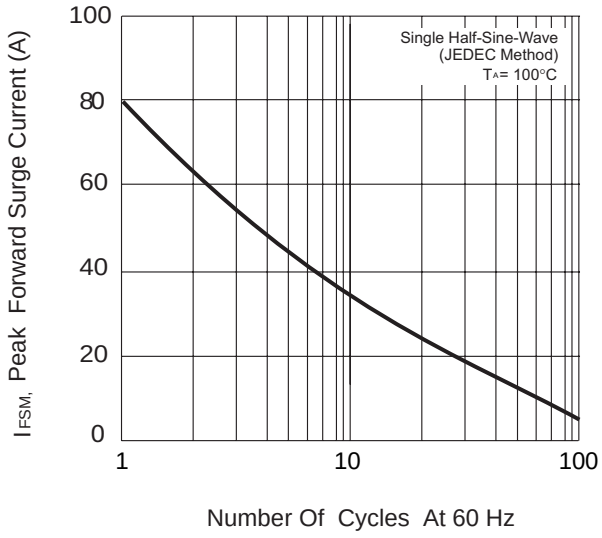


Fig.4 Typical Reverse Chracteristics (per element)

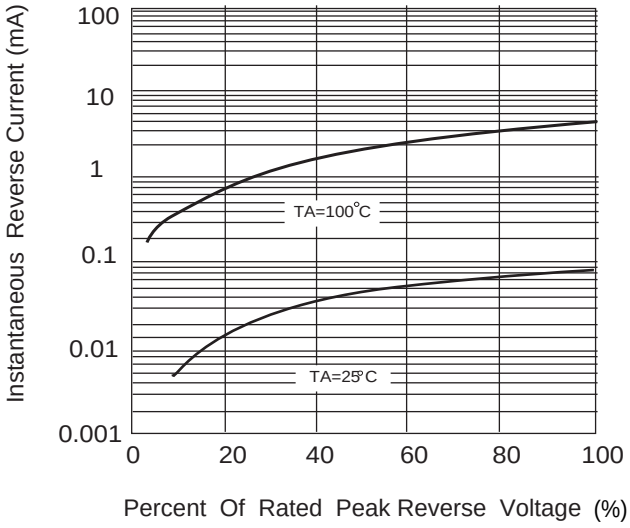
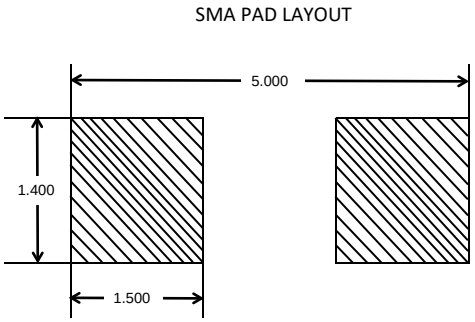


Fig.5 Mounting PAD Layout



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