

3.0 Amp SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

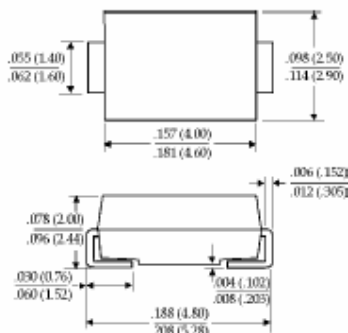
SS32A-A...SS36A-A Series

Description



**DO-214AC
(SMA)**

Mechanical Dimensions



Dimensions in inches and (millimeters)

FEATURES

- FREE HALOGEN SUFFIX ADD – A
- EXTREMELY LOW V_f
- LOW STORED CHARGE
- MAJORITY CARRIER CONDUCTION
- MEET UL SPECIFICATION 94V-0
- LOW POWER LOSS- HIGH EFFICIENCY

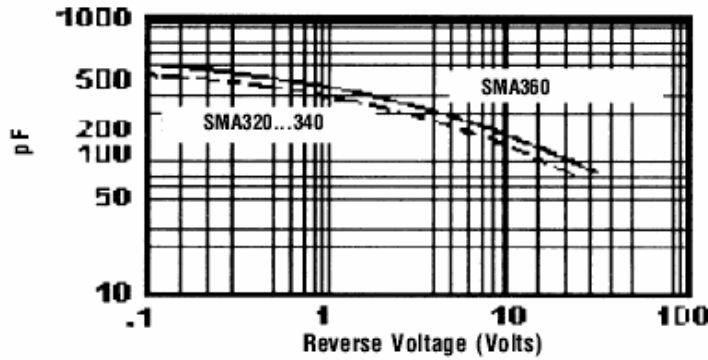
Electrical Characteristics @ 25°C.		SS32A-A...SS36A-A Series				Units
Maximum Ratings		20	30	40	60	
Peak Repetitive Reverse Voltage... V_{RRM}		20	30	40	60	Volts
Working Peak Reverse Voltage... V_{RWM}		20	30	40	60	Volts
DC Blocking Voltage... V_{DC}		20	30	40	60	Volts
RMS Reverse Voltage... $V_{R(rms)}$		14	21	28	42	Volts
Average Forward Rectified Current... $I_{F(av)}$	.....	3.0	.....	.....	.....	Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM}	.....	80	.....	.....	.....	Amps
Forward Voltage... V_f (Note 2)		.50	.55	.55	.75	Volts
DC Reverse Current... I_s @ Rated DC Blocking Voltage	$T_C = 25^\circ C$ $T_C = 100^\circ C$	.....	0.5	.....	.....	mAmps mAmps
Typical Junction Capacitance... C_j (Note1)	.....	250	.....	.....	.....	pF
Typical Thermal Resistance... $R_{\theta JE}$	.....	80	.....	.....	.....	°C / W
Operating Temperature Range... T_j	-65 to 125	°C
Storage Temperature Range... T_{STRG}	-65 to 125	°C



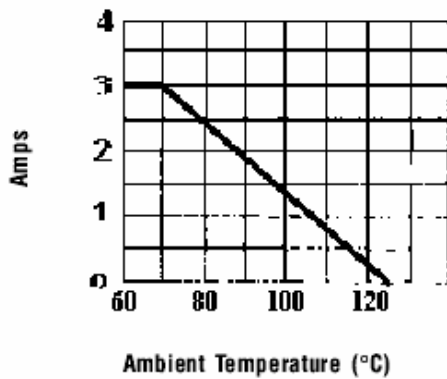
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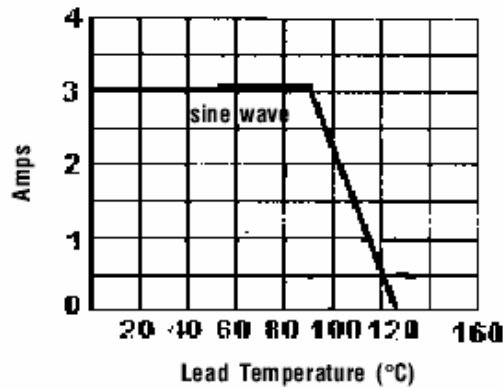
Typical Junction Capacitance



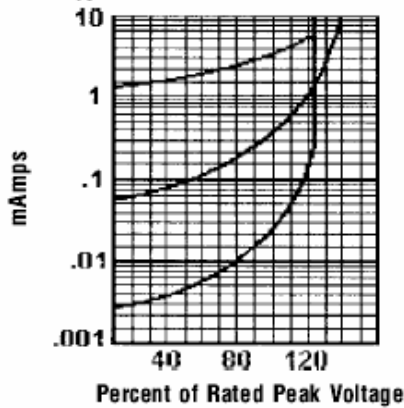
Forward Current Derating Curve



Forward Current Derating Curve



Typical Reverse Characteristics



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Ambient, Jedec Method.
 3. When Mounted to heat sink, from body.