

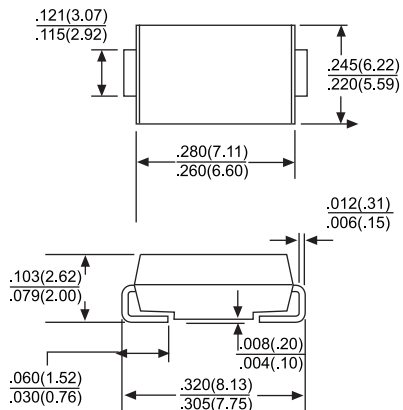


SS32 THRU SS36

3.0 AMPS. SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage Range
20 to 60 Volts
Current
3.0 Amperes

SMC/DO-214AB



Dimensions in inches and (millimeters)

Features

- For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- Epitaxial construction
- High temperature soldering: 250°C/ 10 seconds at terminals

Mechanical Data

- Case: Molded plastic
- Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 16mm tape per EIA STD RS-481
- Weight: 0.21 gram

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		SS32	SS33	SS34	SS35	SS36	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T _L (See Fig.1)	I _{F(AV)}	3.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100					A
Maximum Instantaneous Forward Voltage (Note 1)@ 2.0A	V _F	0.5		0.75			V
Maximum DC Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage @ T _A = 100°C	I _R	0.5					mA
		20			10.0		
Typical Thermal Resistance(Note 2)	R _{θJL} R _{θJA}	17					°C/W
		75					
Operating Temperature Range	T _J	-55 to +125					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

NOTES: 1. Pulse Test with PW=300 usec, 1% Duty Cycle
2. Measured on P.C. Board with 0.55 x 0.55" (14 x 14mm) Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES SS32 THRU SS36



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

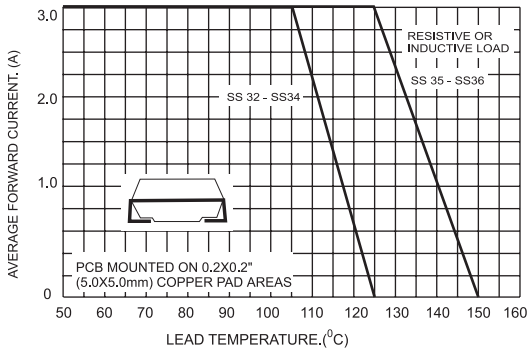


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

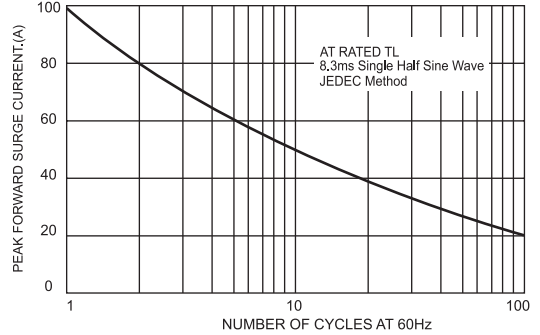


FIG.3-TYPICAL FORWARD CHARACTERISTICS

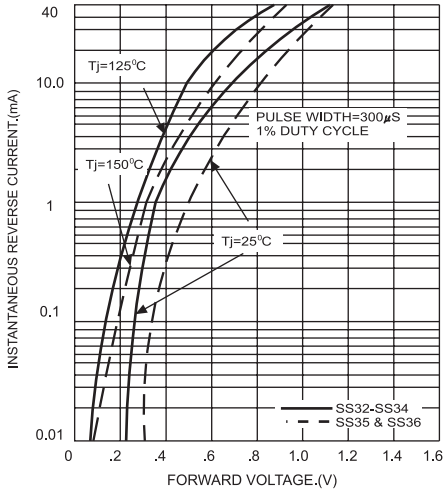


FIG.4-TYPICAL REVERSE CHARACTERISTICS

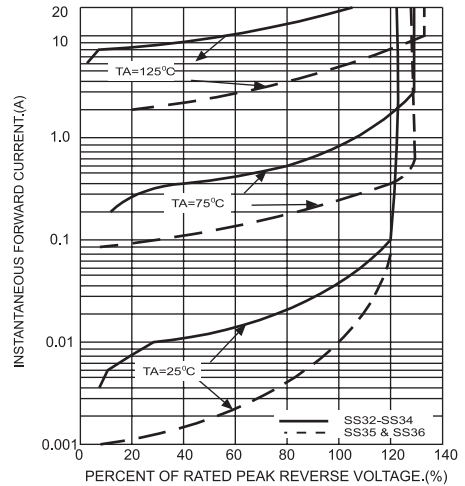


FIG.5-TYPICAL JUNCTION CAPACITANCE

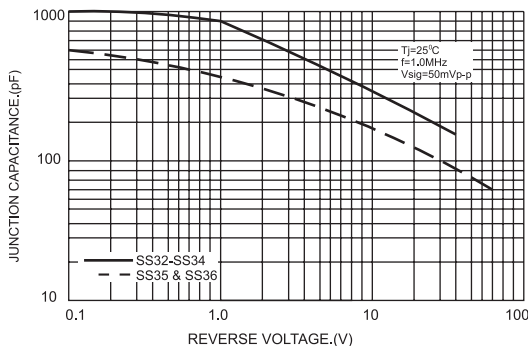


FIG.6-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

