

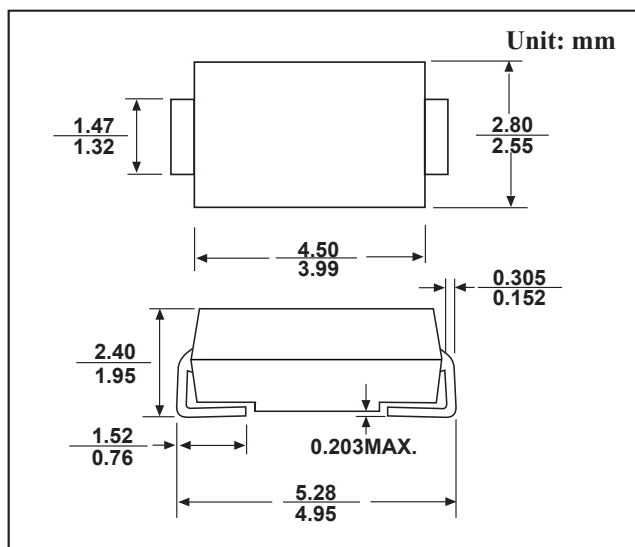
SMA SCHOTTKY BARRIER DIODE

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: SMA molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER		SYMBOL	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	UNITS
Maximum recurrent peak reverse voltage		V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage		V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage		V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward rectified Current0.375"(9.5mm) lead length		I _{F(AV)}	3.0									A
Peak forw ard surge current 8.3ms single half sine-w ave superimposed on rated load		I _{FSM}	75.0									A
Maximum instantaneous forward voltage at 3.0 A		V _F	0.45	0.55		0.70		0.85				V
Maximum reverse current at rated DC blocking voltage per diode	@T _A =25℃	I _R	0.5									mA
	@T _A =100℃		20.0			10.0						
Typical Thermal Resistance		R _{θJA}	17.0									℃/W
Typical junction capacitance		C _J	500			300						pF
Storage Temperature		T _{STG}	- 55 ---- + 150									℃
Operation Junction Temperature		T _j	- 55 ---- + 125									℃

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

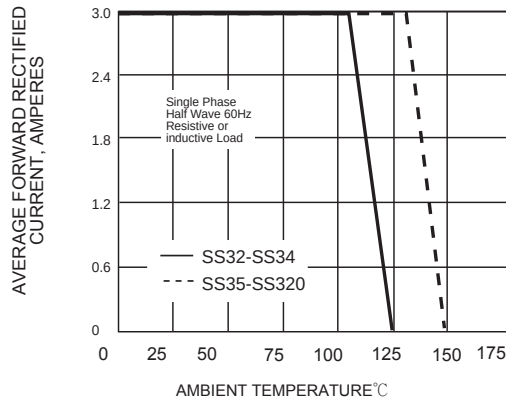


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

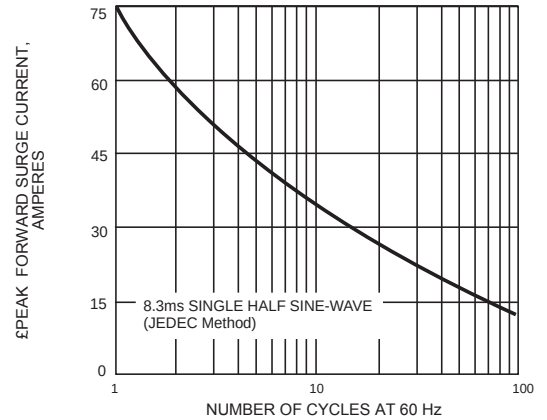


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

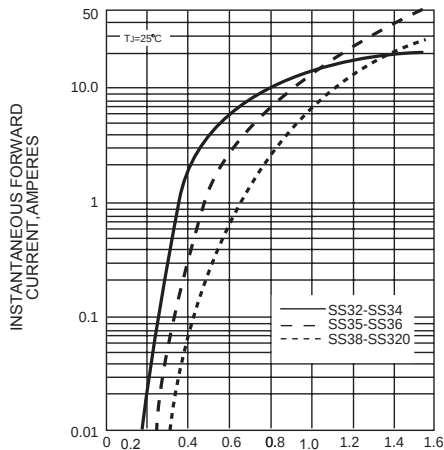


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

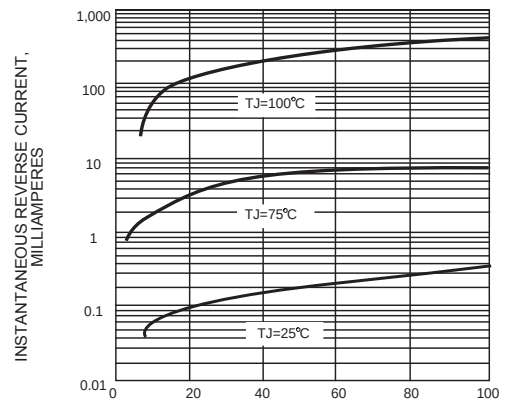


FIG. 5-TYPICAL JUNCTION CAPACITANCE

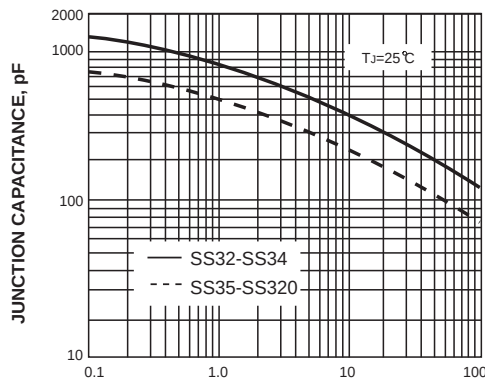


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

