

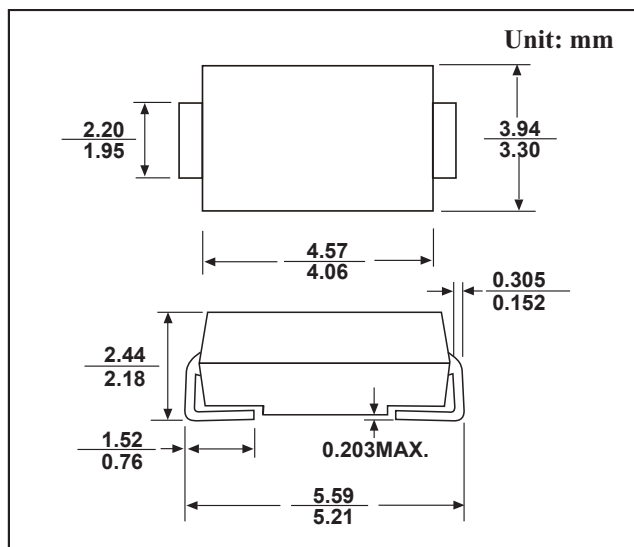
SMB SCHOTTKY BARRIER DIODE

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: SMB molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER		SYMBOL	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS520	UNITS
Maximum recurrent peak reverse voltage		V _{RRM}	20	30	40	50	60	80	100	200	V
Maximum RMS voltage		V _{RMS}	14	21	28	35	42	57	71	140	V
Maximum DC blocking voltage		V _{DC}	20	30	40	50	60	80	150	200	V
Maximum Average Forward rectified Current0.375"(9.5mm) lead length		I _{F(AV)}	5.0								A
Peak forw ard surge current 8.3ms single half sine-w ave superimposed on rated load		I _{FSM}	150.0								A
Maximum instantaneous forward voltage at 5.0 A		V _F	0.55			0.70		0.85		0.95	V
Maximum reverse current at rated DC blocking voltage per diode	@T _A =25℃	I _R	0.2								mA
	@T _A =100℃		50.0				10.0				
Typical Thermal Resistance		R _{θJA}	55.0								℃/W
Typical junction capacitance		C _J	500			400					
Storage Temperature		T _{STG}	- 55 ---- + 150								℃
Operation Junction Temperature		T _j	- 55 ---- + 125								℃

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

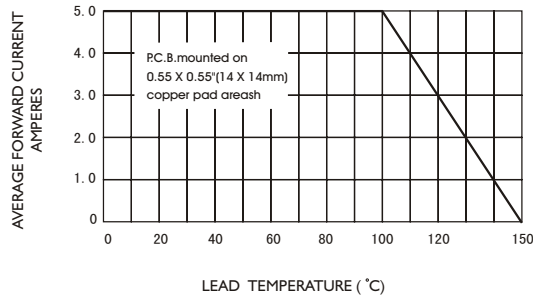


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

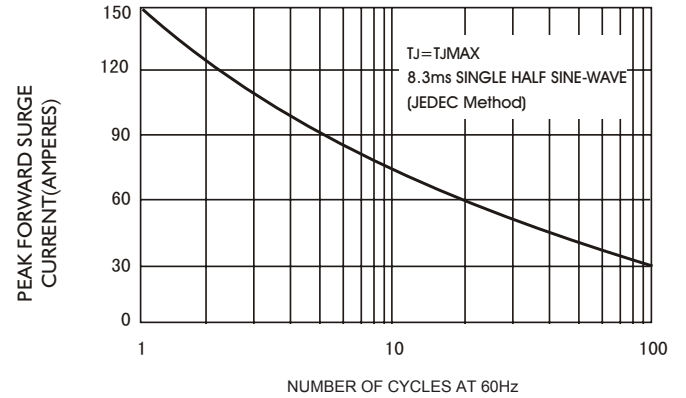


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

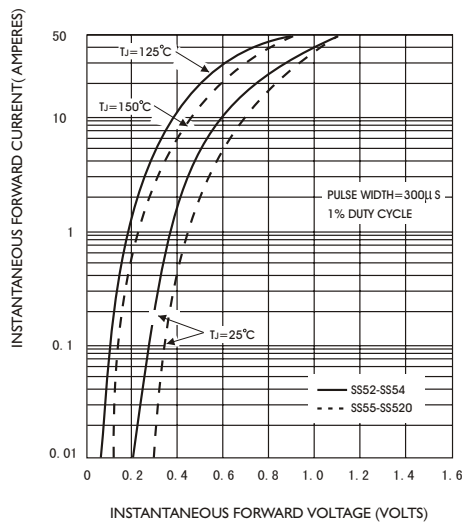


FIG.4-TYPICAL REVERSE CHARACTERISTICS

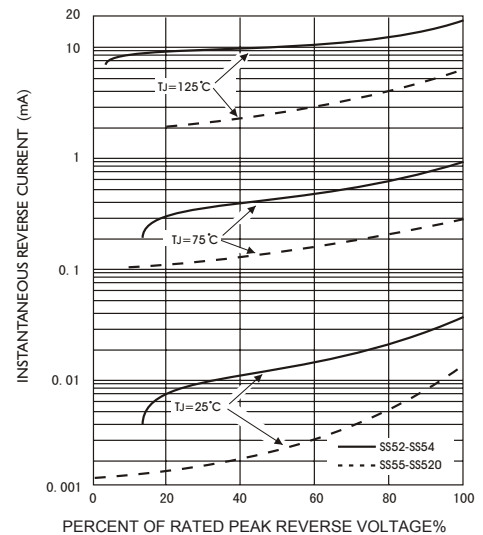


FIG.5-TYPICAL JUNCTION CAPACITANCE

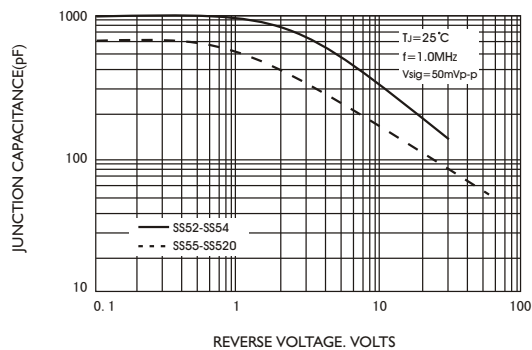


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

