鲁晶 LUJING

SS52---SS520

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 20--- 200V CURRENT: 5.0 A

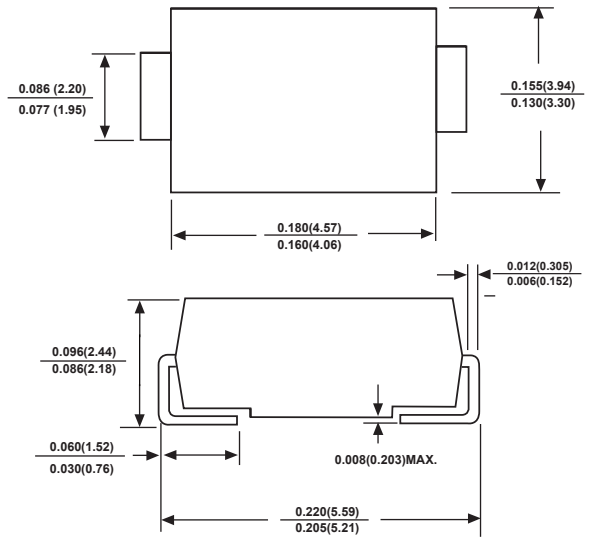
FEATURES

- ●Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing
- ●Metal silicon junction ,majority carrier conduction
- ●Built-in strain relief
- ●For surface mounted applications
- ●Low power loss ,high efficiency,High surge capability
- ●High current capability ,Low forward voltage drop
- ●For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- ●High temperature soldering guaranteed:260 ℃/10 seconds at terminals
- ●Component in accordance to RoHS 2002/95/Ec and WEEE 2002/96/EC

MECHANICAL DATA

- ●Case: SMB molded plastic body
- ●Terminals:Lead solderable per MIL-STD-750,method 2026
- ●Polarity:Color band denotes cathode end

SMB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load.
For capacitive load,derate by 20%.

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(Note1)		V_F	0.55			0.70		0.85		0.95	V
Maximum reverse current	@T_A=25℃	I_R	0.2								mA
at rated DC blocking voltage perdiode	@T_A=100℃		50.0						10.0		
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	55.0								℃/W
Typical junction capacitance(Note 3)		C_J	500			400					
Storage Temperature		T_{STG}	- 55 ---- + 150								℃
Operation Junction Temperature		T_j	- 55 ---- + 125								℃

NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

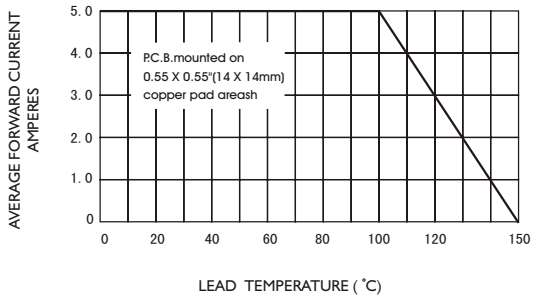


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

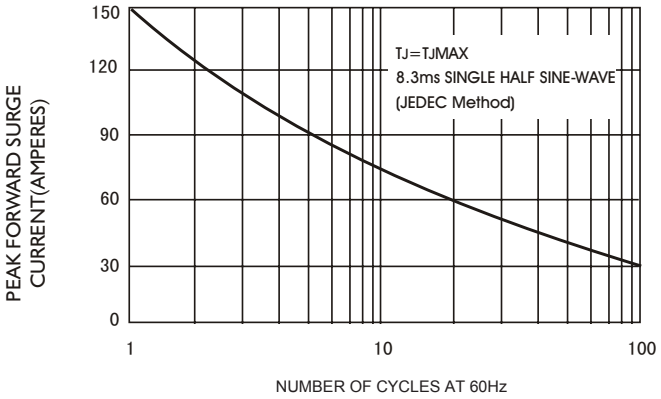


FIG.3-TYPICAL INSTANTANE OUS FORWARD CHARACTERISTICS

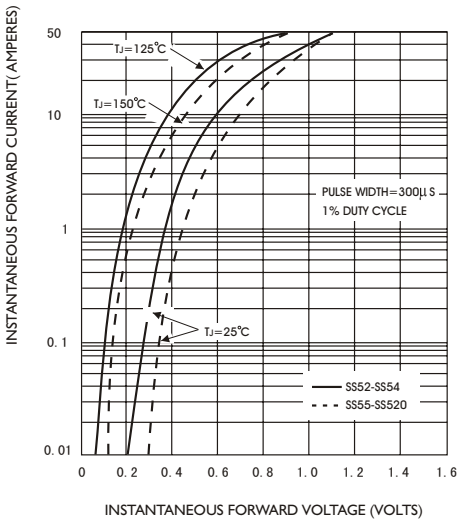


FIG.4-TYPICAL REVERSE CHARACTERISTICS

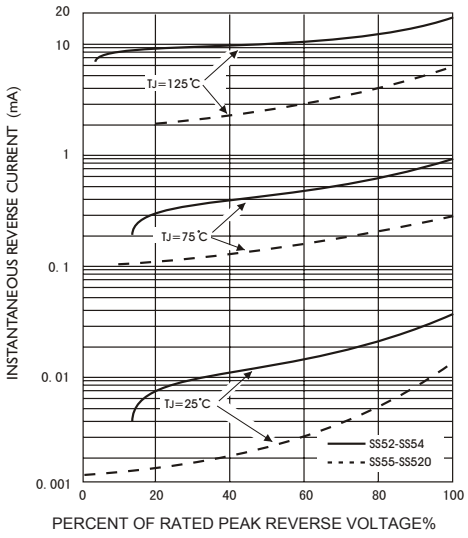


FIG.5-TYPICAL JUNCTION CAPACITANCE

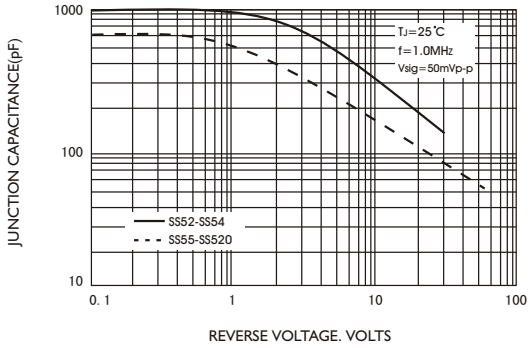


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE