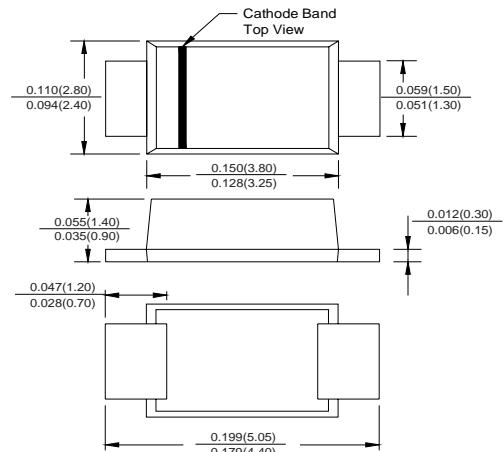


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- For surface mount applications
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Low profile package
- Built-in strain relief ,ideal for automated placement
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals



SMAF



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Meth
- Approx. Weight: 27mg 0.00086oz

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	SS 52 LF	SS 53 LF	SS 54 LF	SS 545 LF	SS 56 LF	SS 58 LF	SS 510 LF	SS 515 LF	SS 520 LF	Units				
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	45	60	80	100	150	200	Volts				
Maximum RMS voltage	V _{RMS}	14	21	28	32	42	57	71	105	140	Volts				
Maximum DC blocking voltage	V _{DC}	20	30	40	45	60	80	100	150	200	Volts				
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)	5.0								Amps					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated T _J)	I _{FSM}	150.0								Amps					
Maximum instantaneous forward voltage at 5.0 A(Note 1)	V _F	0.45			0.50	0.68		0.80	0.85	Volts					
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C T _A =100°C	I _R	0.2							mA					
Typical junction capacitance(Note 3)	C _J		50		10										
Typical thermal resistance (Note 2)	R _{θJA} R _{θJL}	55.0 17.0								°C/W					
Operating junction temperature range	T _J	-65 to +150								°C					
Storage temperature range	T _{STG}	-65 to +150								°C					

Notes: 1. Pulse test: 300 μ s pulse width,1% duty cycle

2. P.C.B. mounted 0.55X0.55"(14X14mm) copper pad areas

3. Measured at 1MHz and reverse voltage of 4.0 volts



星合电子
XINGHE ELECTRONICS

SS52LF THRU SS520LF

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts

Forward Current - 5.0 Amperes

FIG.1-FORWARD CURRENT DERATING CURVE

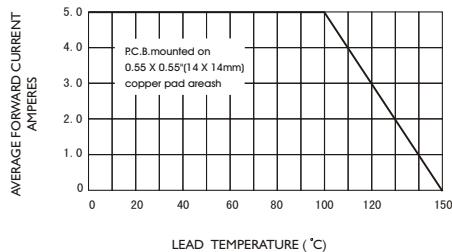


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

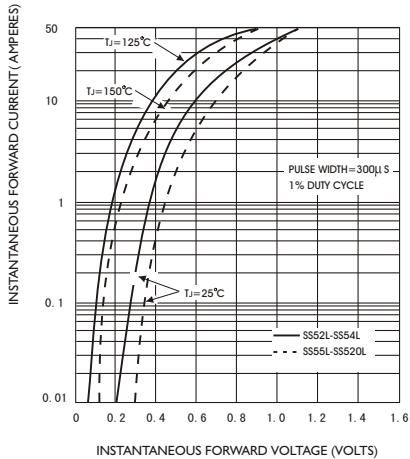


FIG.5-TYPICAL JUNCTION CAPACITANCE

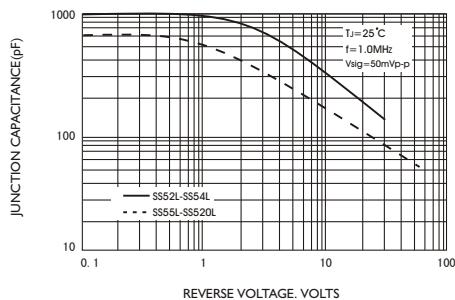


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

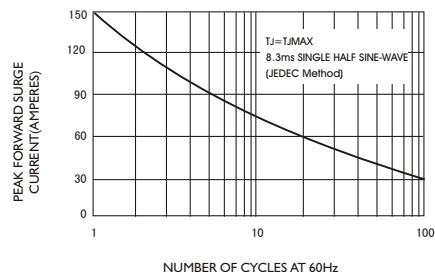


FIG.4-TYPICAL REVERSE CHARACTERISTICS

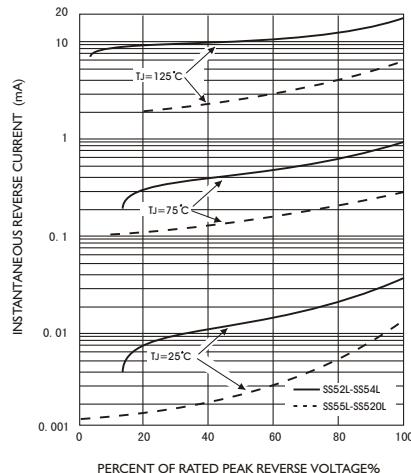


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

