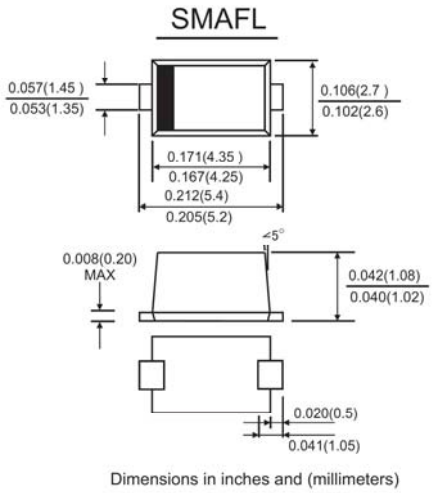
Central Plate
Electronics Co.,Ltd.

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
SS34LT 40 V 3.0A

Features



Dimensions in inches and (millimeters)

- Very low forward voltage:0.45V
- 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℃/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

Mechanical Data

- Case: SMAFL molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

		Symbols	SS34LT	Volts
Maximum repetitive peak reverse voltage		V_{RRM}	40	Volts
Maximum RMS voltage		V_{RMS}	28	Volts
Maximum DC blocking voltage		V_{DC}	40	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length (See Fig.1)		$I_{(AV)}$	3.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	80.0	Amps
Forward voltage at 3.0 A(Note 1)		V_F	TYP. 0.40 MAX. 0.45	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA =25 C	I_R	0.85	mA
	TA =100 C		50	
Typical junction capacitance(Note 3)		CJ	250	PF
Typical thermal resistance (Note 2)		$R_{\Theta JA}$ $R_{\Theta JC}$	88.0 28.0	℃/W
Operating junction temperature range		T_J	-65 to+150	℃
Storage temperature range		T_{STG}	-65 to+150	℃

NOTES:

1.Pulse test: 300uS pulse width,1% duty cycle
2. P.C.B. mounted 0.55 X 0.55"(14 X 14mm)copper pad areas
3. Measured at 1MHz and reverse voltage of 4.0volts

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

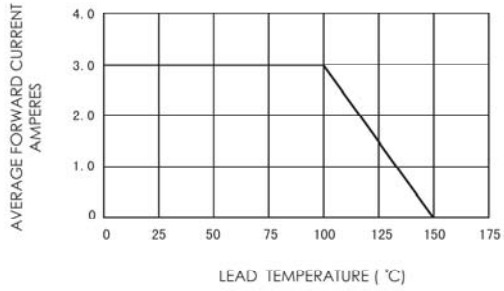

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

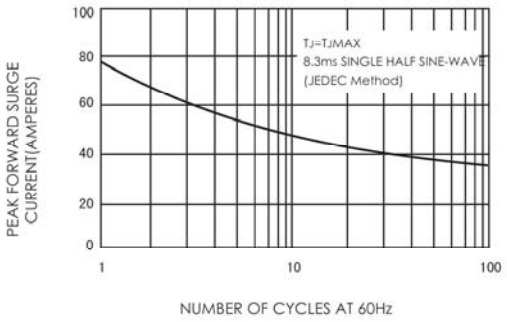

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

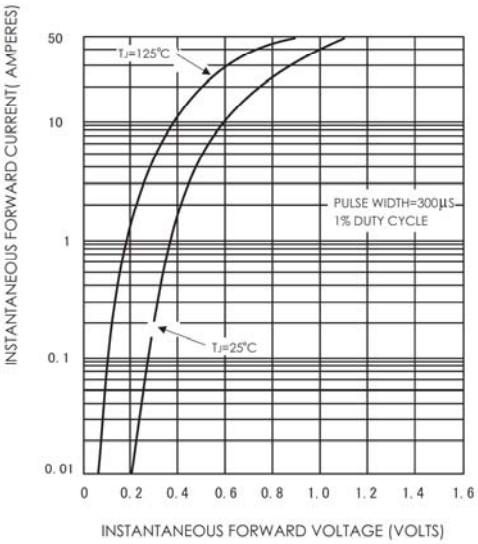

FIG.4-TYPICAL REVERSE CHARACTERISTICS

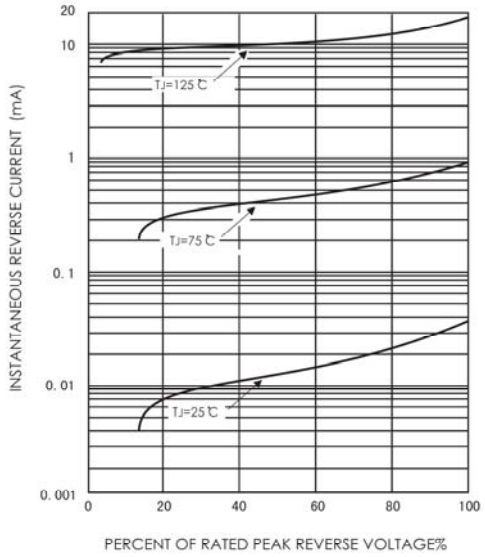

FIG.5-TYPICAL JUNCTION CAPACITANCE

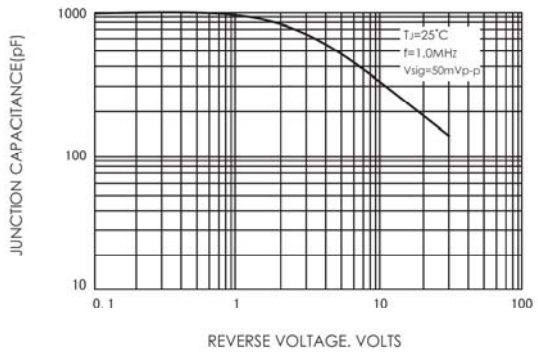

FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE