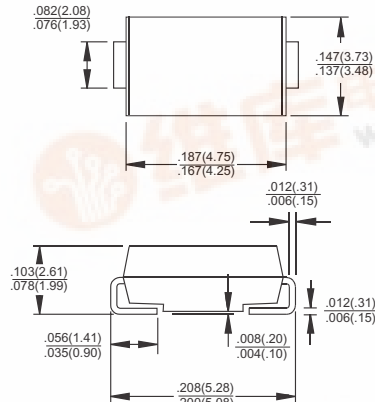


TSC 	SKL32B THRU SKL34B 3.0 AMPS. Surface Mount Low V_F Schottky Barrier Rectifiers				
	Voltage Range 20 to 40 Volts Current 3.0 Amperes				
Features ✧ For surface mounted application ✧ Metal silicon junction, majority carrier conduction ✧ Low forward voltage drop ✧ Easy pick and place ✧ High surge current capability ✧ Plastic material used carries Underwriters Laboratory Classification 94V-O ✧ Epitaxial construction ✧ High temperature soldering: 260°C / 10 seconds at terminals	SMB/DO-214AA  Dimensions in inches and (millimeters)				
Mechanical Data ✧ Cases: Molded plastic ✧ Terminals: Solder plated ✧ Polarity: Indicated by cathode band ✧ Packaging: 16mm tape per EIA STD RS-481 ✧ Weight: 0.21gram					
Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%					
Type Number	Symbol	SKL32B	SKL33B	SKL34B	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	3.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100			A
Maximum Instantaneous Forward Voltage (Note 1) @3.0A	V _F	0.385		0.40	V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	I _R	5.0			mA
		250			mA
Maximum Thermal Resistance (Note 2)	R θ JL	17			°C/W
	R θ JA	55			
Marking Code		SL32B	SL33B	SL34B	
Operating Temperature Range	T _J	-55 to +125			°C
Storage Temperature Range	T _{STG}	-55 to + 150			°C

Notes:1. Pulse Test with PW=300 usec, 1% Duty Cycle.

2. Measured on P.C. Board with 0.6 x 0.6"(16.0 x 16.0mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES (SKL32B THRU SKL34B)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

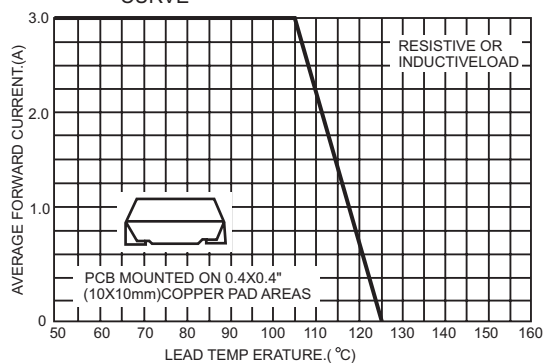


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

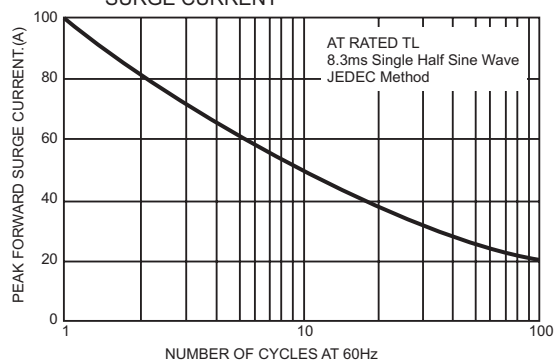


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

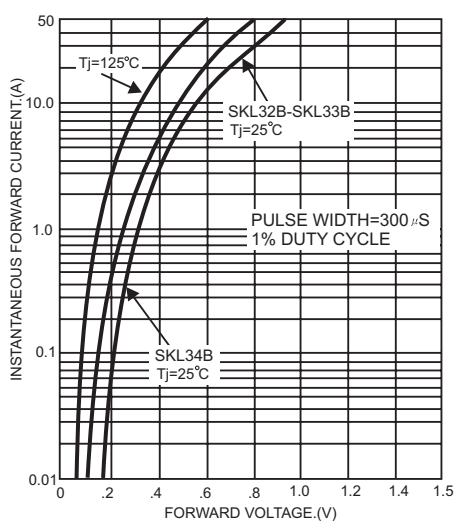


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

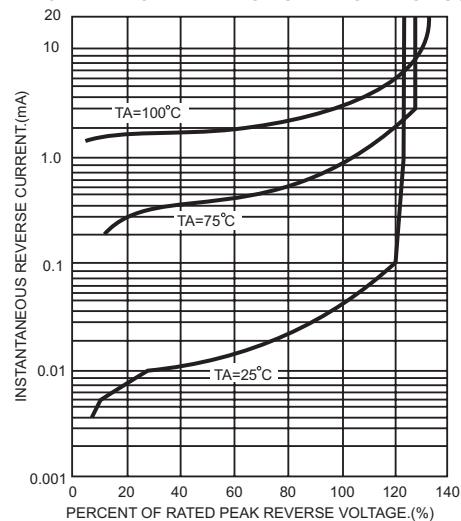


FIG. 5- TYPICAL JUNCTION CAPACITANCE

