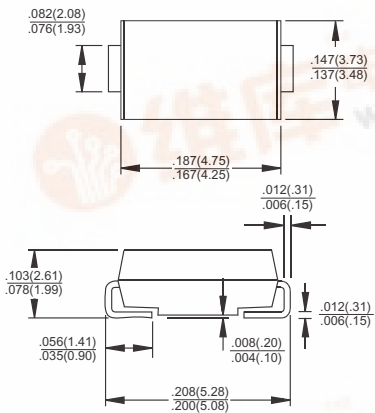


TSC 	SSL22 THRU SSL24 2.0 AMPS. Surface Mount Low V_F Schottky Barrier Rectifiers					
		Voltage Range 20 to 40 Volts Current 2.0 Amperes				
Features ✧ For surface mounted application ✧ Metal silicon junction, majority carrier conduction ✧ Low forward voltage drop ✧ Easy pick and place ✧ High surge 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: 12mm tape per EIA STD RS-481 ✧ Weight: 0.093 gram						
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	SSL22	SSL23	SSL24	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)	2.0			A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80			A	
Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	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	1.0			mA	
		100			mA	
Maximum Thermal Resistance (Note 2)	R _θ JL	25			°C/W	
	R _θ JA	70				
Marking Code		SL22	SL23	SL24		
Operating Temperature Range	T _J	-65 to +125			°C	
Storage Temperature Range	T _{STG}	-65 to +125			°C	

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

2. Measured on P.C. Board with 0.4 x 0.4"(10 x 10mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES (SSL22 THRU SSL24)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

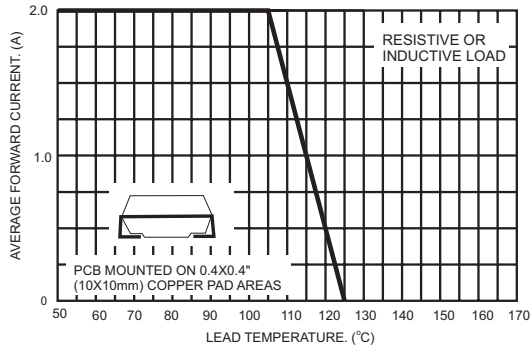


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

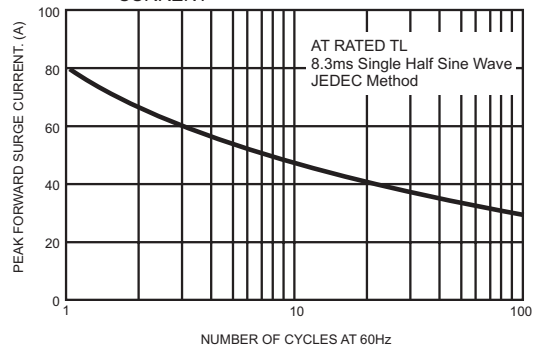


FIG.3- TYPICAL FORWARD CHARACTERISTICS

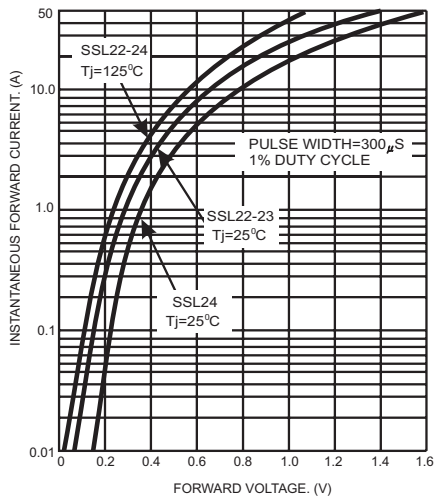


FIG.4- TYPICAL REVERSE CHARACTERISTICS

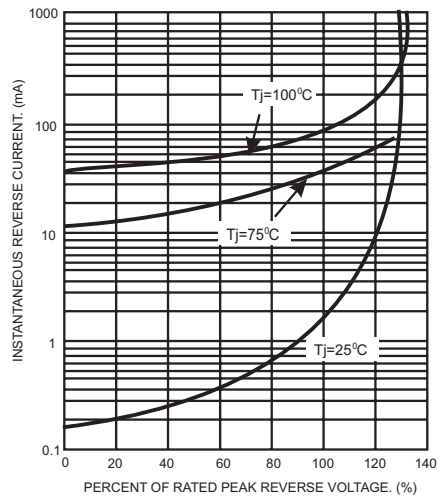


FIG.5- TYPICAL JUNCTION CAPACITANCE

