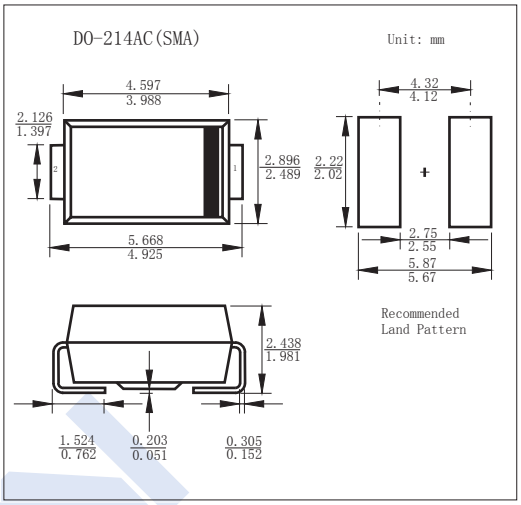
Schottky Diodes

SS32 ~ SS320



■ Features

- For surface mounted application
- Easy pick and place
- Low power loss, high efficiency
- High current capability, low V_F
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	SS 32	SS 33	SS 34	SS 35	SS 36	SS 39	SS 310	SS 315	SS 320	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	150	200	V
RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	105	140	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	150	200	
Forward Voltage @ 3A Ta = 25℃ (Note.1)	V_F	0.55			0.75		0.85		0.95		
Ta = 100℃		0.4			0.65		0.7		0.8		
Averaged Forward Current	I_{FAV}	3									A
Peak Forward Surge Current @ 8.3ms	I_{FSM}	100			70						
Maximum DC Reverse Current Ta=25℃	I_R	0.5					0.1				mA
Ta=100℃		10			5		-				
Ta=125℃		-					0.5				
Thermal Resistance.Junction- to-Ambient	R_{thJA}	55									℃/W
Thermal Resistance.Junction- to-Case	R_{thJC}	17									
Operating Temperature Range	T_J	-55 to 125			-55 to 150						℃
Storage Temperature	Tstg	-55 to 150									

Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle

Schottky Diodes

SS32 ~ SS320

■ Typical Characterisitics

FIG.1 FORWARD CURRENT DERATING CURVE

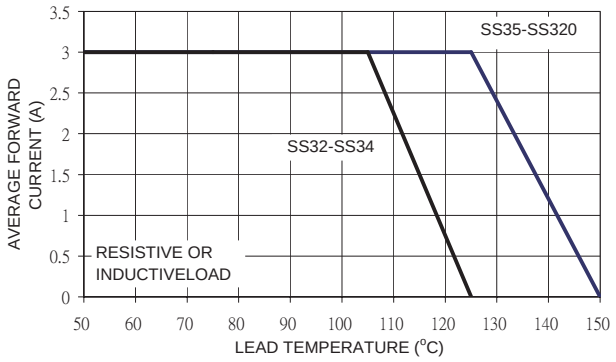


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

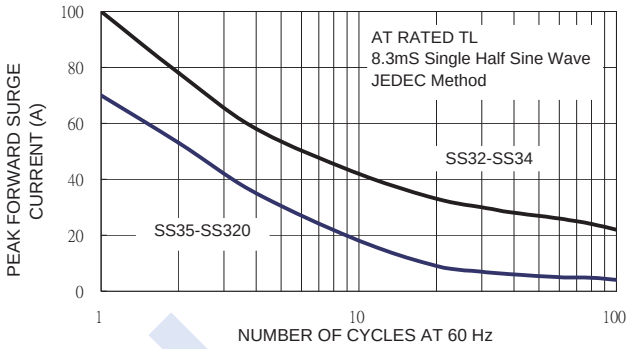


FIG. 3 TYPICAL FORWARD CHARACTERISRICS

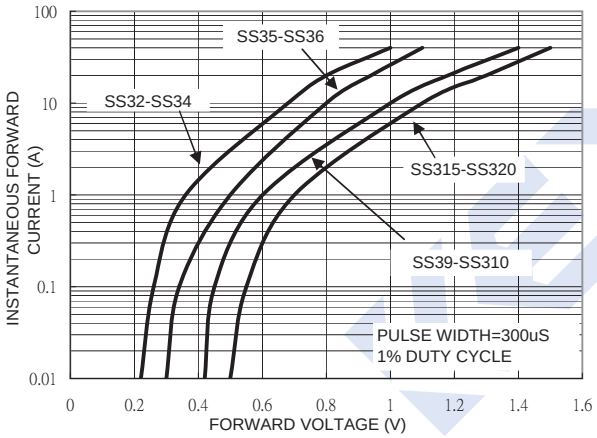


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

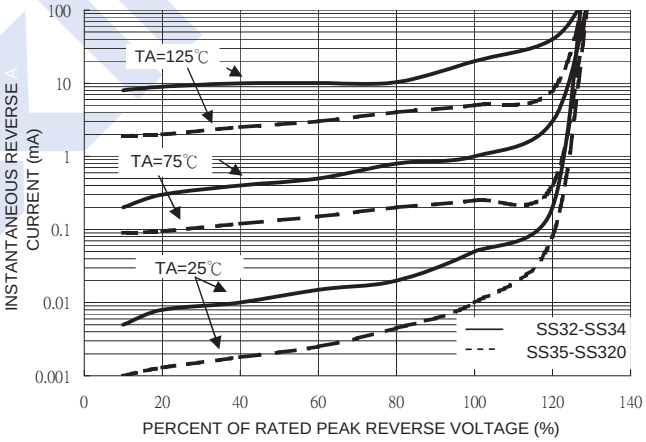


FIG. 5 TYPICAL JUNCTION CAPACITANCE

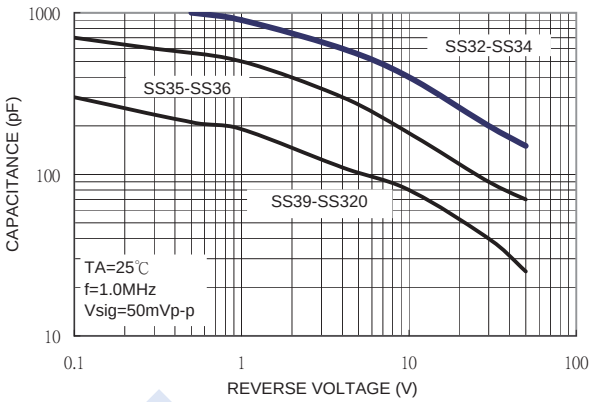
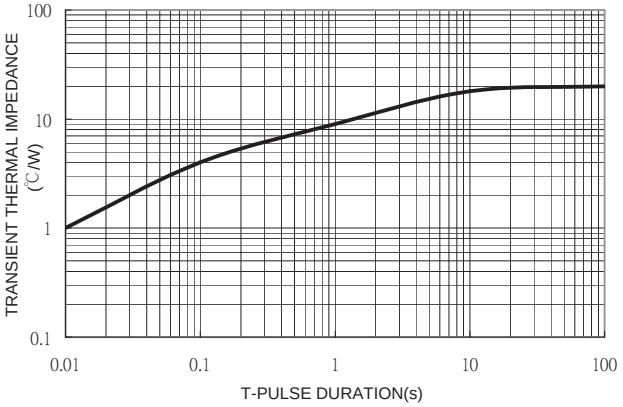


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE



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