

**ELECTRICAL CHARACTERISTICS** ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

PARAMETER	TEST CONDITIONS		SYMBOL	SSC53L		SSC54		UNIT
				TYP.	MAX.	TYP.	MAX.	
Maximum instantaneous forward voltage ⁽¹⁾	5.0 A	$T_J = 25\text{ }^\circ\text{C}$	V_F	0.42	0.45	0.45	0.49	V
		$T_J = 125\text{ }^\circ\text{C}$		0.33	0.38	0.36	0.42	
Maximum reverse current at rated V_R ⁽²⁾		$T_J = 25\text{ }^\circ\text{C}$	I_R	-	0.7	-	0.5	mA
		$T_J = 125\text{ }^\circ\text{C}$		45	65	40	60	

Notes(1) Pulse test: 300 μs pulse width, 1 % duty cycle(2) Pulse test: Pulse width $\leq 40\text{ ms}$ **THERMAL CHARACTERISTICS** ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SSC53L	SSC54	UNIT
Typical thermal resistance ⁽¹⁾	$R_{\theta JA}$	60		$^\circ\text{C/W}$
	$R_{\theta JL}$	20		

Note

(1) Aluminum substrate mounted

ORDERING INFORMATION (Example)

PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SSC53L-E3/57T	0.235	57T	850	7" diameter plastic tape and reel
SSC53L-E3/9AT	0.235	9AT	3500	13" diameter plastic tape and reel
SSC53LHE3_A/H ⁽¹⁾	0.235	H	850	7" diameter plastic tape and reel
SSC53LHE3_A/I ⁽¹⁾	0.235	I	3500	13" diameter plastic tape and reel

Note

(1) AEC-Q101 qualified



RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

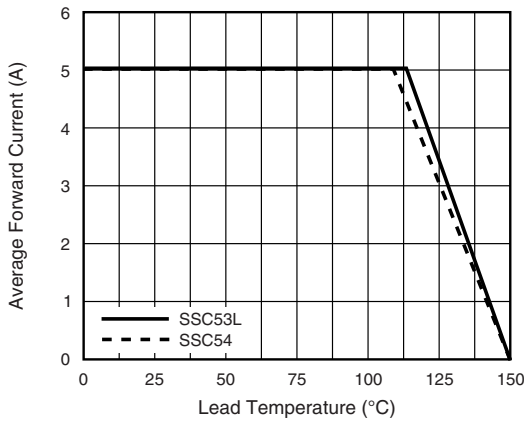


Fig. 1 - Forward Current Derating Curve

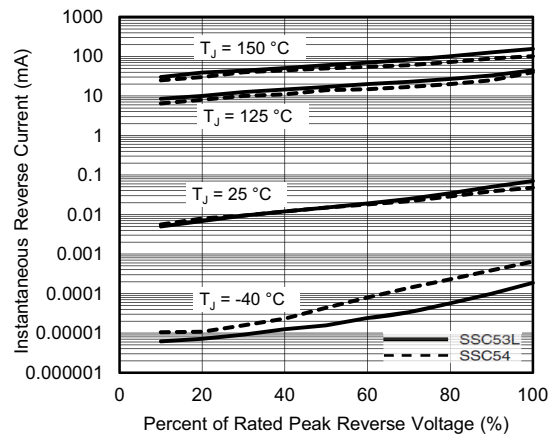


Fig. 4 - Typical Reverse Characteristics

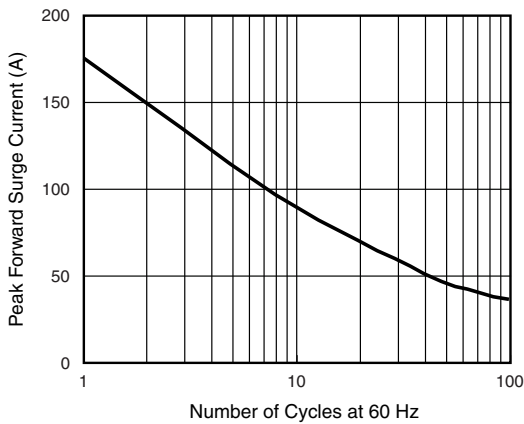


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

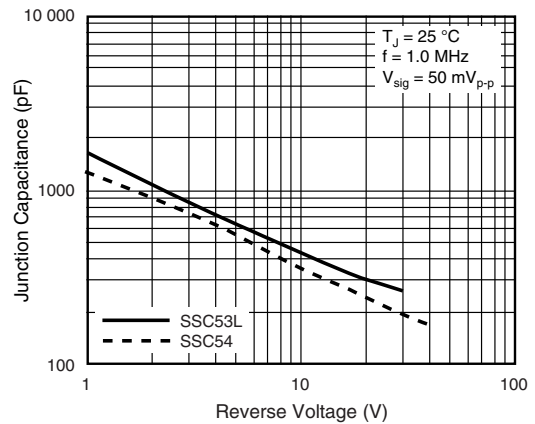


Fig. 5 - Typical Junction Capacitance

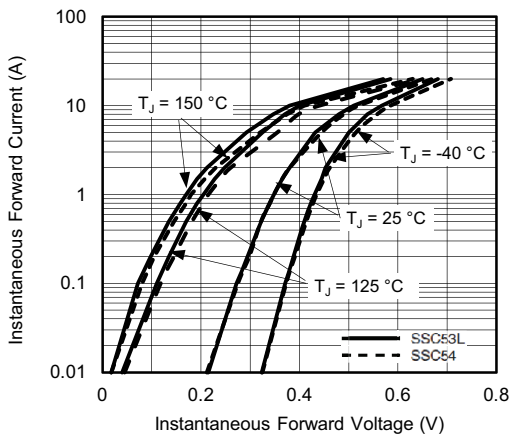
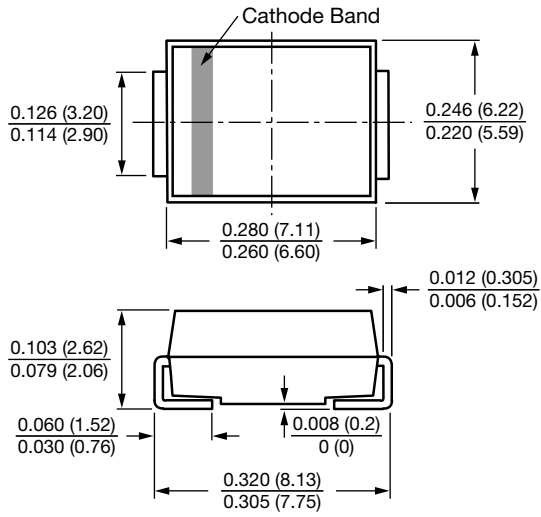


Fig. 3 - Typical Instantaneous Forward Characteristics

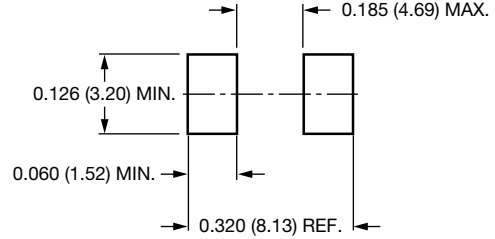


PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

SMC (DO-214AB)



Mounting Pad Layout





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