



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)					
PARAMETER	TEST CONDITIONS	SYMBOL	ES2F	ES2G	UNIT
Maximum instantaneous forward voltage	2.0 A	V_F ⁽¹⁾	1.1		V
Maximum reverse current at V_{RRM}	$T_A = 25\text{ }^\circ\text{C}$	I_R	10		μA
	$T_A = 100\text{ }^\circ\text{C}$		200		
Maximum reverse recovery time	$I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.25\text{ A}$	t_{rr}	35		ns
Maximum reverse recovery time	$I_F = 1.0\text{ A}$, $di/dt = 100\text{ A}/\mu\text{s}$, $V_R = 30\text{ V}$, $I_{rr} = 0.1 I_{RM}$	t_{rr}	50		ns
Maximum reverse recovery current	$I_F = 1.0\text{ A}$, $di/dt = 100\text{ A}/\mu\text{s}$, $V_R = 30\text{ V}$, $I_{rr} = 0.1 I_{RM}$	I_{RM}	3.0		A
Maximum stored charge	$I_F = 1.0\text{ A}$, $di/dt = 100\text{ A}/\mu\text{s}$, $V_R = 30\text{ V}$, $I_{rr} = 0.1 I_{RM}$	Q_{rr}	50		nC
Typical junction capacitance	4.0 V, 1 MHz	C_J	15		pF

Note

⁽¹⁾ Pulse test: 300 μs pulse width, 1 % duty cycle

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)				
PARAMETER	SYMBOL	ES2F	ES2G	UNIT
Maximum thermal resistance	$R_{\theta JA}$ ⁽¹⁾	75		$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$ ⁽¹⁾	25		

Note

⁽¹⁾ Units mounted on PCB 5.0 mm x 5.0 mm (0.013 mm thick) land areas

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
ES2G-E3/52T	0.096	52T	750	7" diameter plastic tape and reel
ES2G-E3/5BT	0.096	5BT	3200	13" diameter plastic tape and reel
ES2GHE3_A/H ⁽¹⁾	0.096	H	750	7" diameter plastic tape and reel
ES2GHE3_A/I ⁽¹⁾	0.096	I	3200	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)

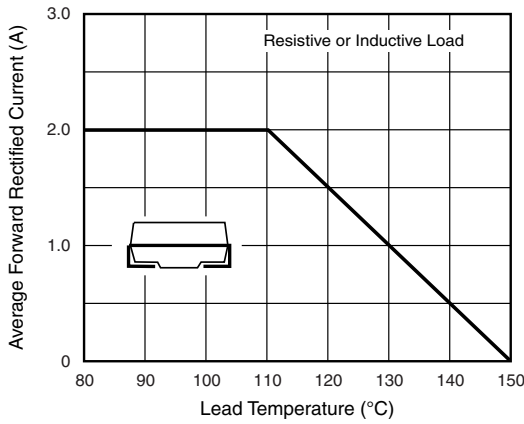


Fig. 1 - Maximum Forward Current Derating Curve

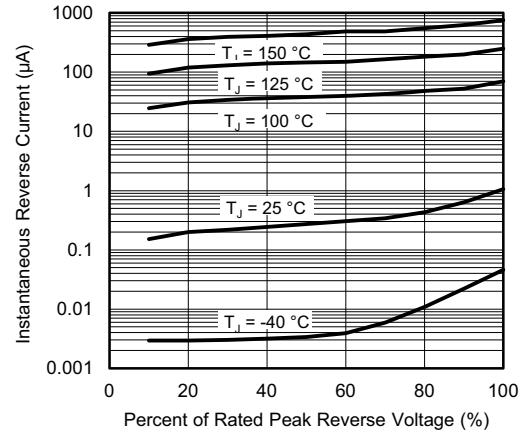


Fig. 4 - Typical Reverse Leakage Characteristics

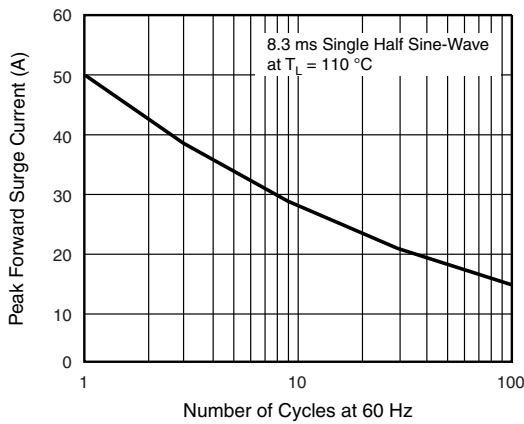


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

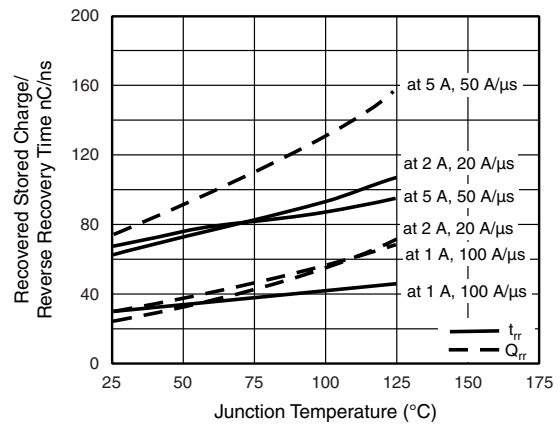


Fig. 5 - Reverse Switching Characteristics

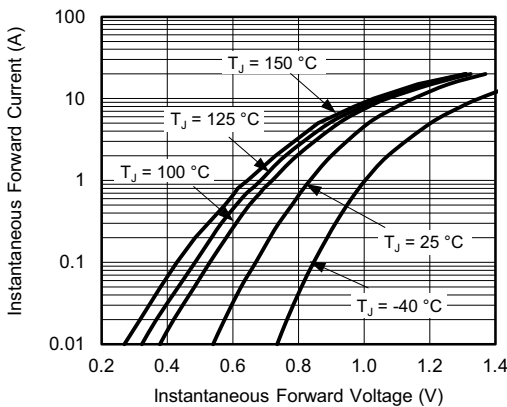


Fig. 3 - Typical Instantaneous Forward Characteristics

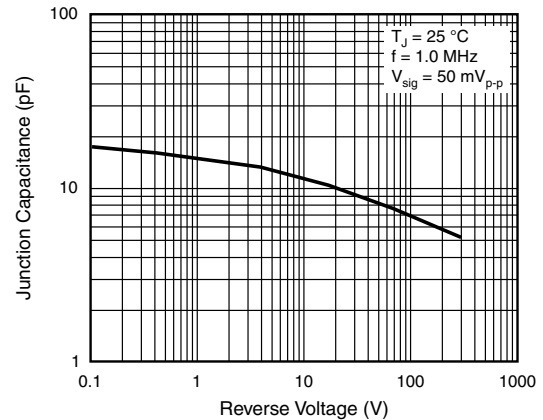
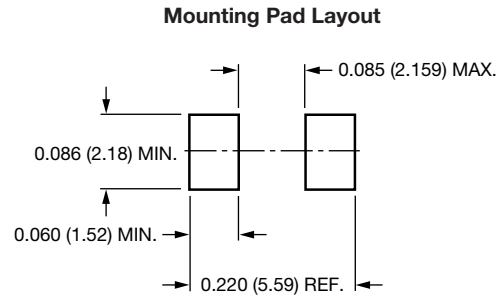
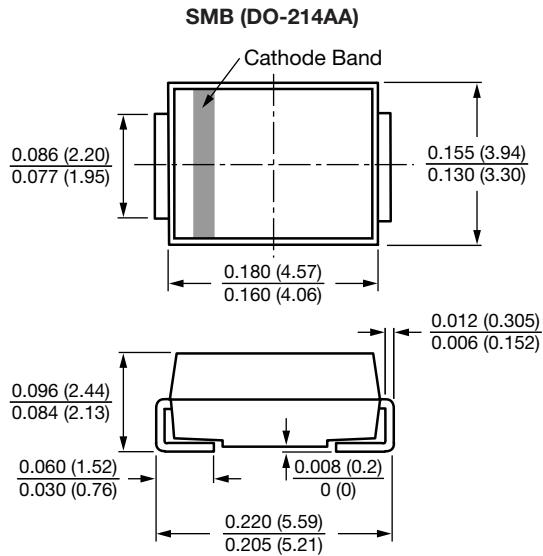


Fig. 6 - Typical Junction Capacitance



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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