ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)								
PARAMETER	**TEST CONDITIONS**		**SYMBOL**	**ES2A**	**ES2B**	**ES2C**	**ES2D**	**UNIT**
Maximum instantaneous forward voltage	2.0 A		V_F (1)	0.90				V
Maximum DC reverse current at rated DC blocking voltage		T_A = 25 °C	I_R	10				µA
		T_A = 100 °C		350				
Max. reverse recovery time	I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A		t_{rr}	20				ns
Maximum reverse recovery time	I_F = 2.0 A, V_R = 30 V, dI/dt = 50 A/µs, I_r = 10 % I_{RM}	T_J = 25 °C	t_{rr}	30				ns
		T_J = 100 °C		50				
Maximum stored charge	I_F = 2.0 A, V_R = 30 V, dI/dt = 50 A/µs, I_r = 10 % I_{RM}	T_J = 25 °C	Q_{rr}	10				nC
		T_J = 100 °C		25				
Typical junction capacitance	4.0 V, 1 MHz		C_J	18				pF

Note

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

THERMAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)							
PARAMETER	**SYMBOL**	**ES2A**	**ES2B**	**ES2C**	**ES2D**	**UNIT**
Typical thermal resistance	$R_{\theta JA}$ (1)	75				°C/W
	$R_{\theta JL}$ (1)	20				

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**
ES2D-E3/52T	0.096	52T	750	7" diameter plastic tape and reel
ES2D-E3/5BT	0.096	5BT	3200	13" diameter plastic tape and reel
ES2DHE3_A/H (1)	0.096	H	750	7" diameter plastic tape and reel
ES2DHE3_A/I (1)	0.096	I	3200	13" diameter plastic tape and reel
ES2D-M3/52T	0.096	52T	750	7" diameter plastic tape and reel
ES2D-M3/5BT	0.096	5BT	3200	13" diameter plastic tape and reel
ES2DHM3_A/H (1)	0.096	H	750	7" diameter plastic tape and reel
ES2DHM3_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 °C unless otherwise noted)

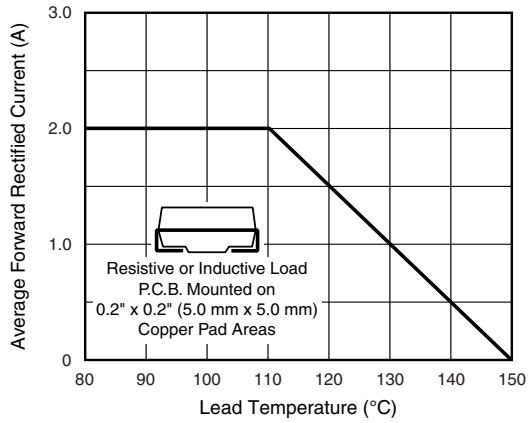


Fig. 1 - Maximum Forward Current Derating Curve

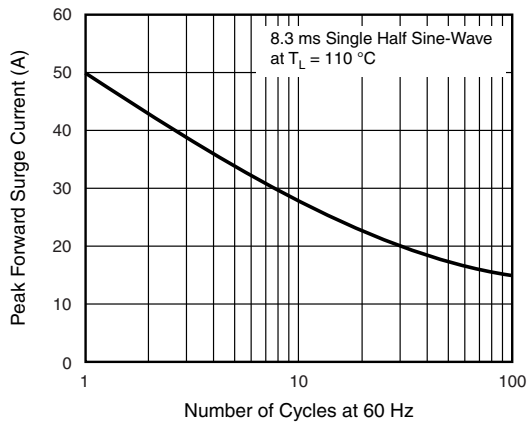


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

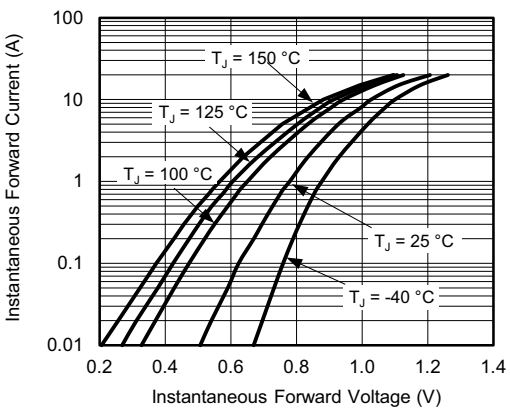


Fig. 3 - Typical Instantaneous Forward Characteristics

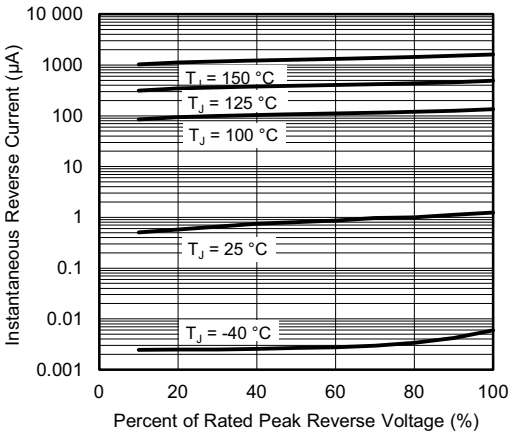


Fig. 4 - Typical Reverse Leakage Characteristics

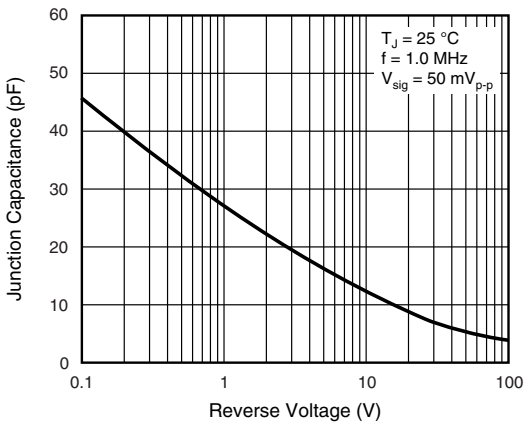


Fig. 5 - Typical Junction Capacitance

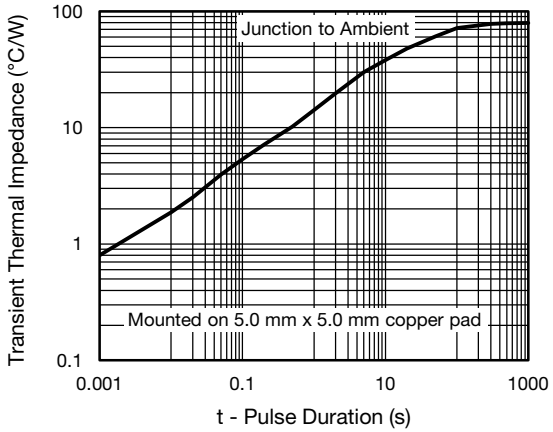
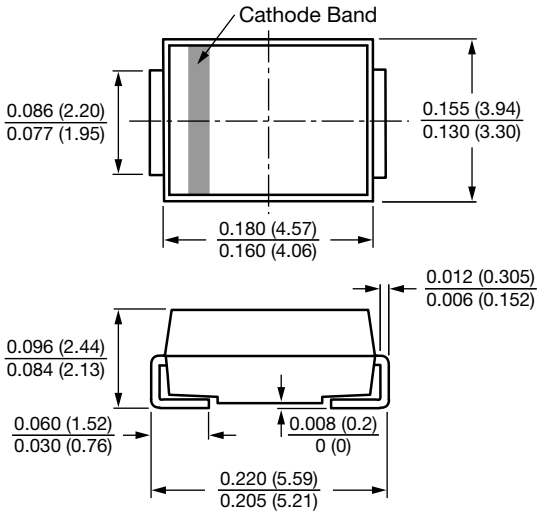


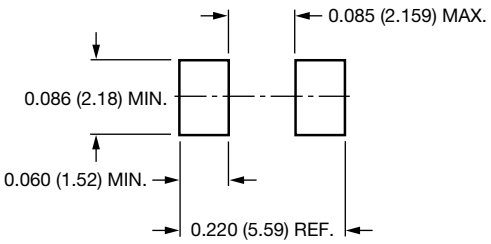
Fig. 6 - Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

SMB (DO-214AA)



Mounting Pad Layout



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