



ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT
Maximum instantaneous forward voltage	I _F = 1.5 A	T _A = 25 °C	V _F (1)	0.90	-	V
	I _F = 3.0 A			0.95	1.2	
	I _F = 1.5 A	T _A = 125 °C		0.77	-	
	I _F = 3.0 A			0.85	1.05	
Maximum DC reverse current at rated DC blocking voltage	Rated V _R	T _A = 25 °C	I _R (2)	-	10	μA
		T _A = 125 °C	-	500		
Typical reverse recovery time	I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A		t _{rr}	2.8	-	μs
Typical junction capacitance	4.0 V, 1 MHz		C _J	26	-	pF

Notes

- (1) Pulse test: 300 μs pulse width, 1 % duty cycle
- (2) Pulse test: pulse width ≤ 40 ms

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)							
PARAMETER	SYMBOL	CS3D	CS3G	CS3J	CS3K	CS3M	UNIT
Typical thermal resistance	R _{θJA} (1)	80					°C/W
	R _{θJM} (2)	13					

Notes

- (1) Free air, mounted on recommended copper pad area; thermal resistance R_{θJA} - junction to ambient
- (2) Mounted on 14 mm x 14 mm copper pad areas, R_{θJM} - junction to mount at the terminal

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
CS3J-E3/I	0.211	I	3500	13" diameter plastic tape and reel

RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

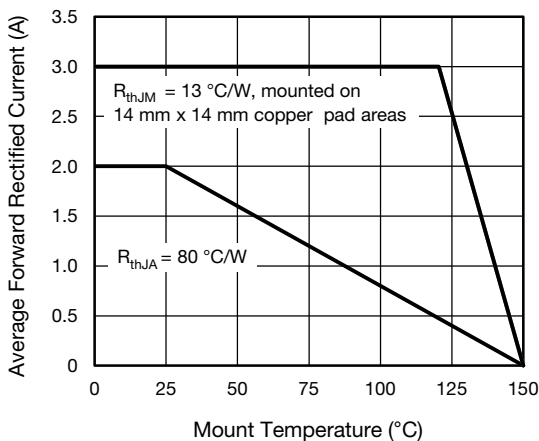


Fig. 1 - Maximum Forward Current Derating Curve

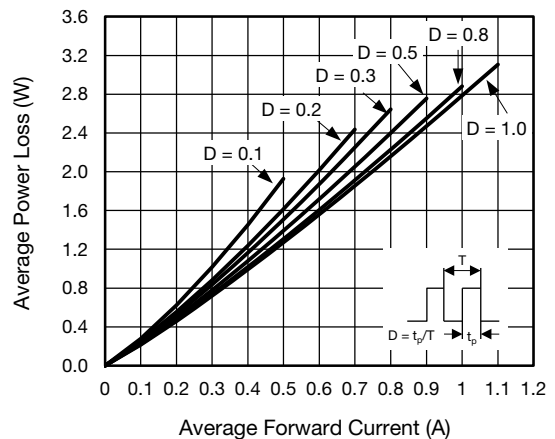


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

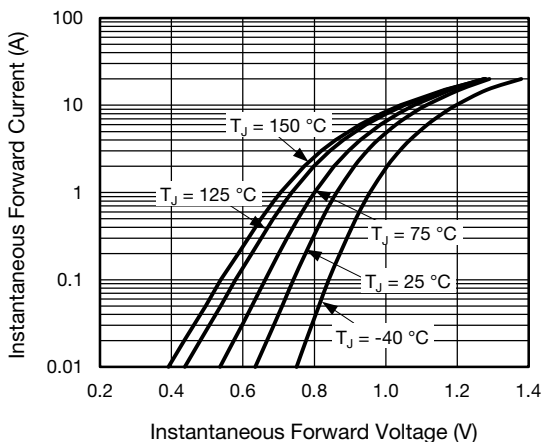


Fig. 3 - Typical Instantaneous Forward Characteristics

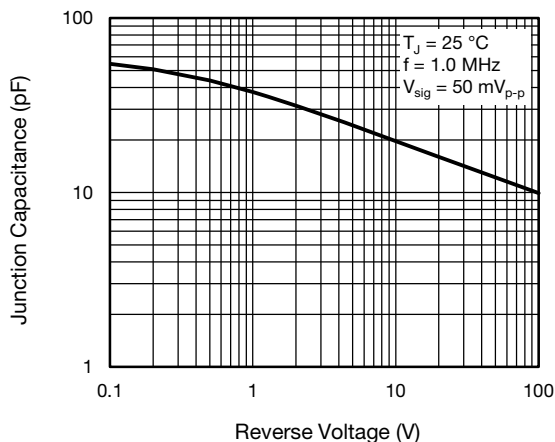


Fig. 5 - Typical Junction Capacitance

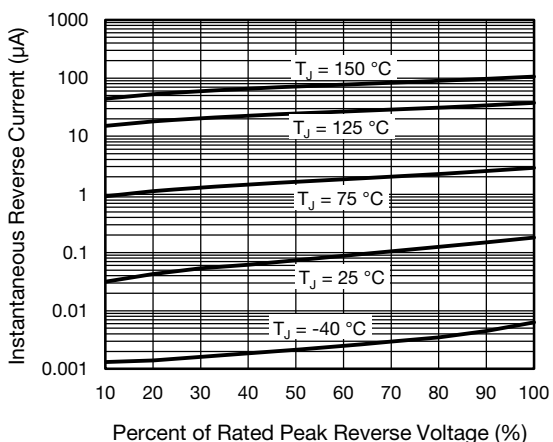


Fig. 4 - Typical Reverse Leakage Characteristics

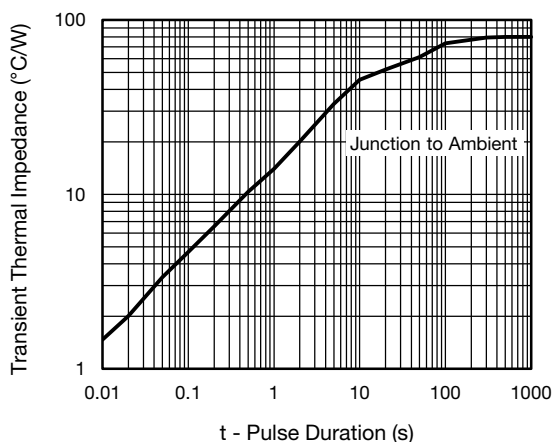
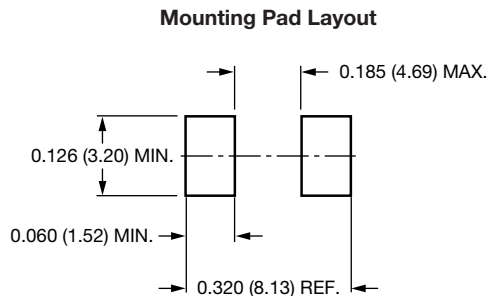
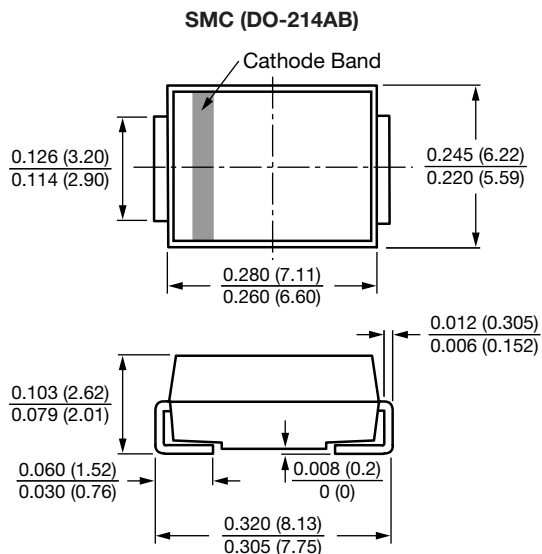


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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