

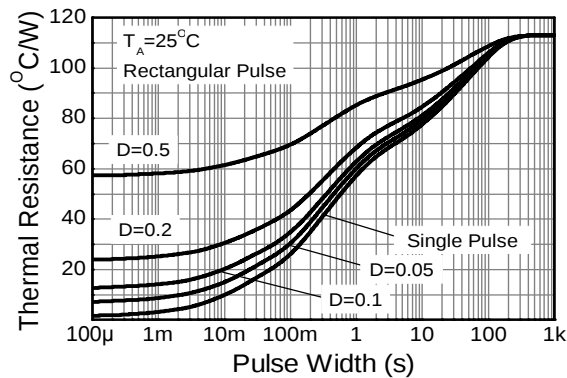
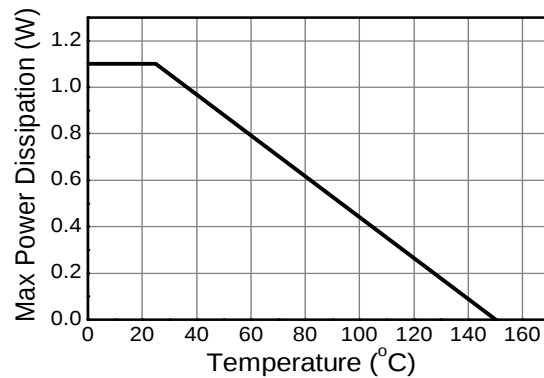
Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Continuous Reverse Voltage	V _{RRM}	40	V
Forward Current	I _F	2.2	A
Peak Repetitive Forward Current Rectangular Pulse Duty Cycle	I _{FPK}	3.55	A
Non Repetitive Forward Current t ≤ 10ms	I _{FSM}	12	A

Thermal Characteristics

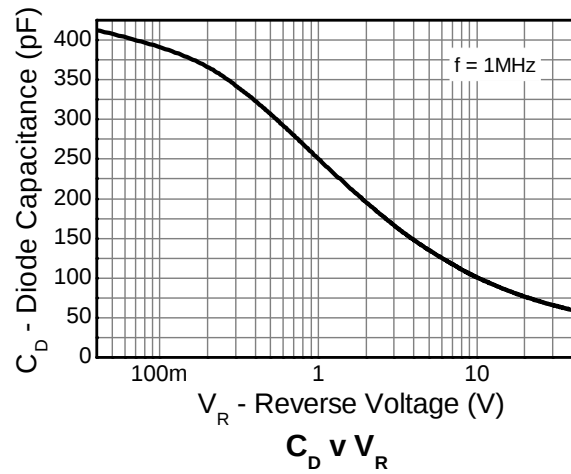
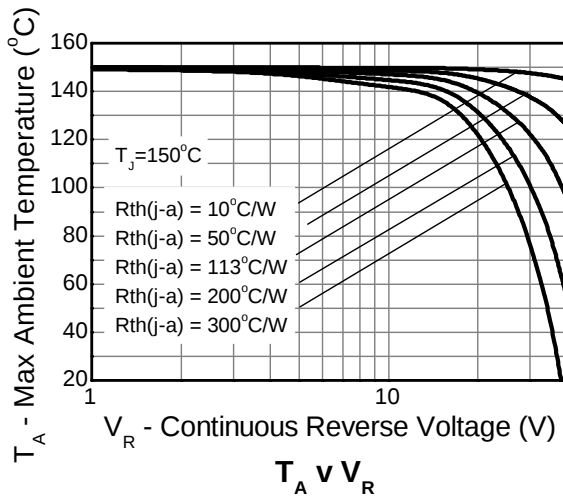
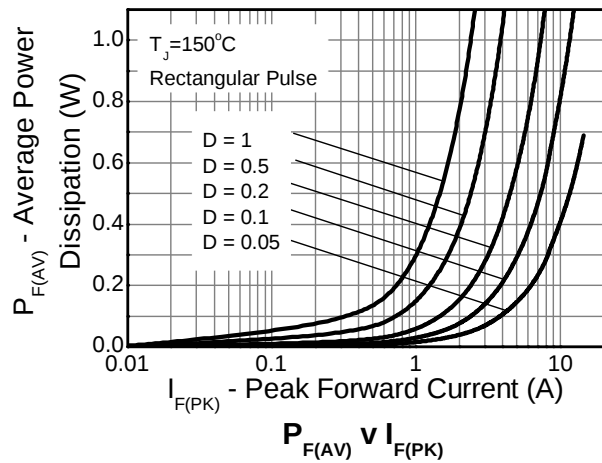
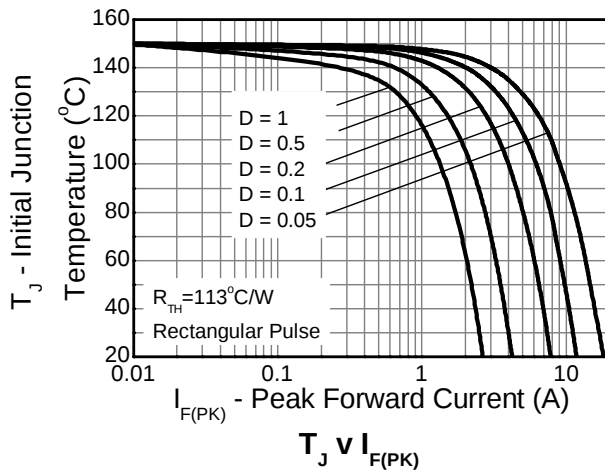
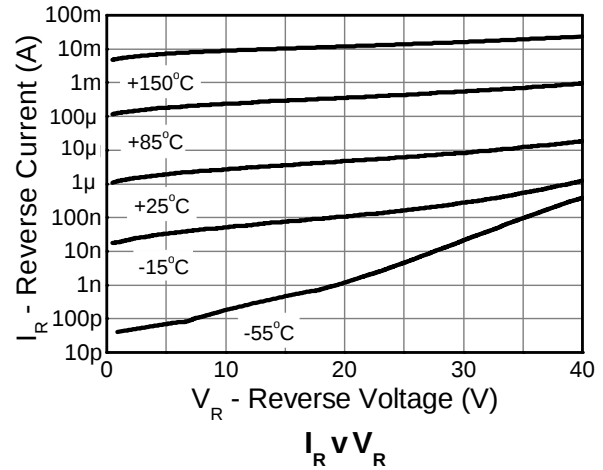
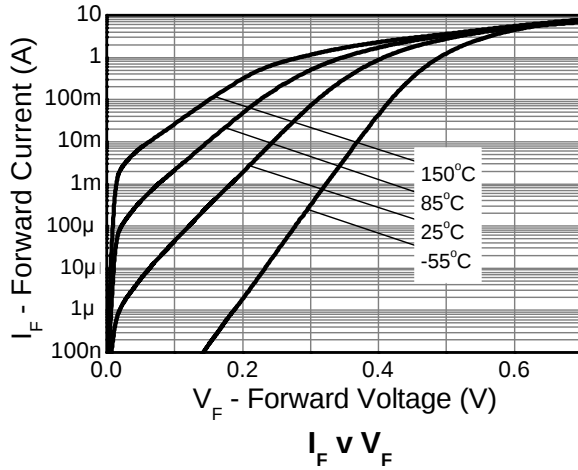
Characteristic	Symbol	Value	Unit
Power Dissipation @T _A = +25°C	P _D	1.1	W
Single Die Continuous		1.71	W
Single Die Measured at t < 5s	R _{θJA}	113	°C/W
Junction to Ambient (Note 6)		73	°C/W
Junction to Ambient (Note 7)	T _{STG}	-55 to +150	°C
Storage Temperature Range	T _J	+150	°C

Notes: 6. For a device surface mounted on 25mm × 25mm FR-4 PCB with high coverage of single sided 1oz copper, in still air conditions.
 7. For a device mounted on FR-B PCB measured at t < 5s.


Transient Thermal Impedance

Derating Curve
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	40	—	—	V	I _R = 1mA
Forward Voltage (Note 8)	V _F	—	285	—	mV	I _F = 50mA
		—	305	—		I _F = 100mA
		—	335	—		I _F = 250mA
		—	365	390		I _F = 500mA
		—	403	430		I _F = 1A
		—	433	490		I _F = 1.5A
		—	461	540		I _F = 2A
		—	509	600		I _F = 3A
		—	450	—		I _F = 2A, T _A = +100°C
Reverse Current	I _R	—	10	40	μA	V _R = 30V
		—	0.6	—	mA	V _R = 30V, T _A = +85°C
Diode Capacitance	C _D	—	65	—	pF	f = 1MHz, V _R = 30V
Reverse Recovery Time	t _{RR}	—	6	—	ns	I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A

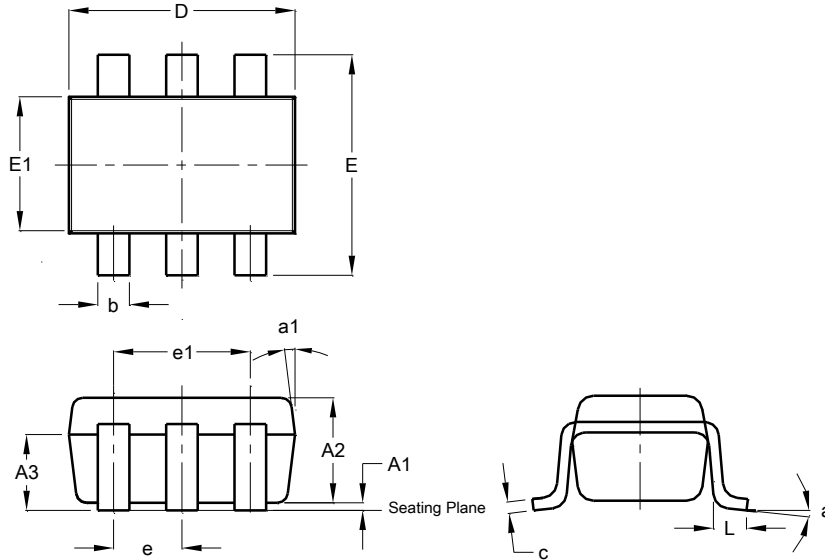
Note: 8. Measured under pulsed conditions. Pulse width = 300μs. Duty cycle < 2%.



Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT26

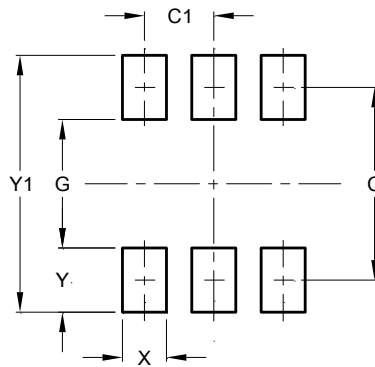


SOT26			
Dim	Min	Max	Typ
A1	0.013	0.10	0.05
A2	1.00	1.30	1.10
A3	0.70	0.80	0.75
b	0.35	0.50	0.38
c	0.10	0.20	0.15
D	2.90	3.10	3.00
e	-	-	0.95
e1	-	-	1.90
E	2.70	3.00	2.80
E1	1.50	1.70	1.60
L	0.35	0.55	0.40
a	-	-	8°
a1	-	-	7°
All Dimensions in mm			

Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT26



Dimensions	Value (in mm)
C	2.40
C1	0.95
G	1.60
X	0.55
Y	0.80
Y1	3.20

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