

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

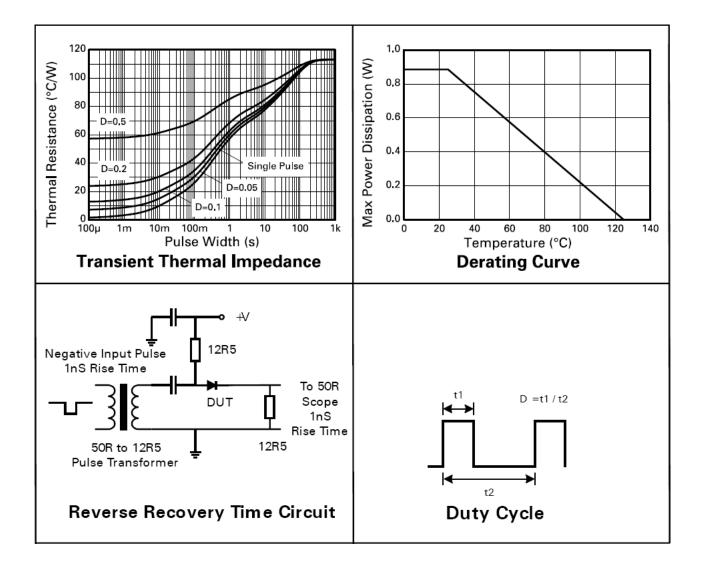
Characteristic		Symbol	Value	Units
Continuous Reverse Voltage		V _R	40	V
Continuous Forward Current		l _F	2	А
Average Peak Forward Current; D.C. = 50%		I _{FAV}	4	А
Non Repetitive Forward Current	t ≤ 100µs	I _{FSM}	20	Α
	t ≤ 10ms		10	A

Thermal Characteristics

Characteristic		Symbol	Value	Unit
Power Dissipation, T _A = +25°C		P _D	1.1	W
Thermal Resistance, Junction to Ambient (Note 5) (Note 6)		R _{θJA}	113 73	_
Junction Temperature		T_J	125	°C
Storage Temperature Range		T _{STG}	-55 to +150	°C

Notes: 5. For a device surface mounted on 25mm x 25mm FR4 PCB with high coverage of single sided 1oz copper, in still air conditions.

6. For a device surface mounted on FR4 PCB measured at t ≤ 5 secs.



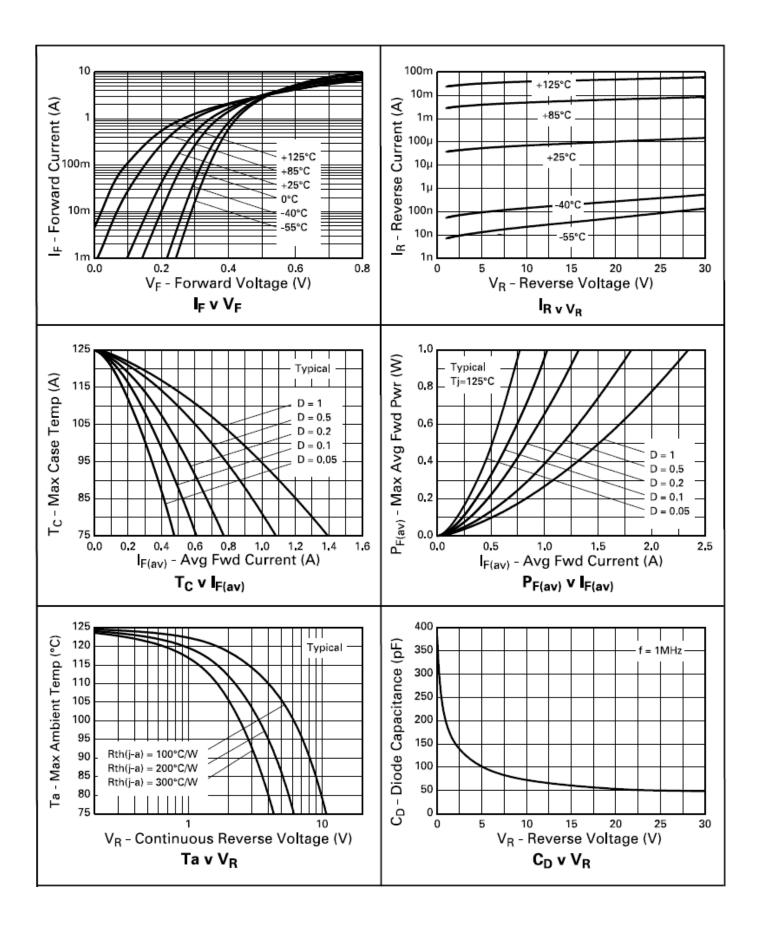


Electrical Characteristics (@T_A = +25°C unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	40	-	-	V	$I_R = 1mA$
	V _F	1	290	325	mV	I _F = 500mA
		-	340	385		I _F = 1000mA
Forward Voltage (Note 7)		-	380	445		I _F = 1500mA
Polward Voltage (Note 7)		-	420	500		I _F = 2000mA
		-	485	615		I _F = 3000mA
		-	420	-		I _F = 2000mA, T _A = +100°C
Reverse Current	I _R	-	160	300	μΑ	$V_R = 30V$
Diode Capacitance	C _D	-	50	-	pF	$f = 1MHz, V_R = 25V$
				-	ns	Switched from I _F = 500mA to
Reverse Recovery Time	trr	-	5.5			$I_R = 500 \text{mA}$
						Measured @ I _R = 50mA

Notes: 7. Measured under pulsed conditions. Pulse width = $300\mu S$. Duty cycle $\leq 2\%$.

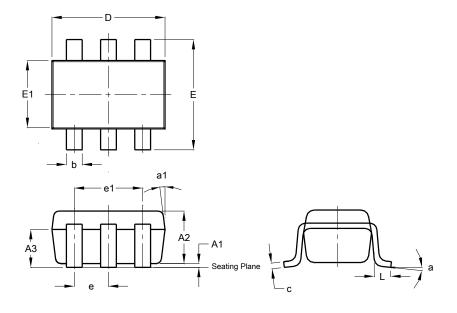






Package Outline Dimensions

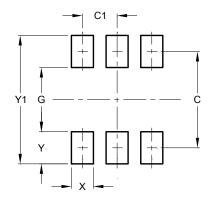
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



SOT26					
Dim	Min	Max	Тур		
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		
С	0.10	0.20	0.15		
D	2.90	3.10	3.00		
е	-	1	0.95		
e1	-	-	1.90		
Е	2.70	3.00	2.80		
E1	1.50	1.70	1.60		
L	0.35	0.55	0.40		
а	-	-	8°		
a1	-	-	7°		
All Dimensions in mm					

Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.



Dimensions	Value (in mm)
С	2.40
C1	0.95
G	1.60
Х	0.55
Υ	0.80
Y1	3.20



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