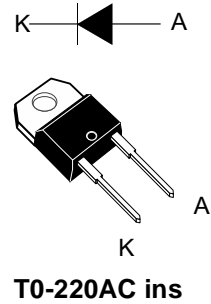


Features

- High Speed Switching, $t_{rr} < 28\text{ns}$ at rating current
- High Reverse Voltage and High Reliability
- Max Forward Voltage, $V_F < 2.0\text{V}$ @25°C
- Insulated voltage, 2500V DC

Applications

- Boost diode in continuous mode power factor corrections



Absolute Maximum Ratings $T_C = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{RRM}	Peak Repetitive Reverse Voltage	600	V
V_{RWM}	Working Peak Reverse Voltage	600	V
V_R	DC Blocking Voltage	600	V
$I_{F(AV)}$	Average Rectified Forward Current @ $T_C = 115^\circ\text{C}$	10	A
I_{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	90	A
T_J, T_{STG}	Operating and Storage Temperature Range	-65 to +150	°C

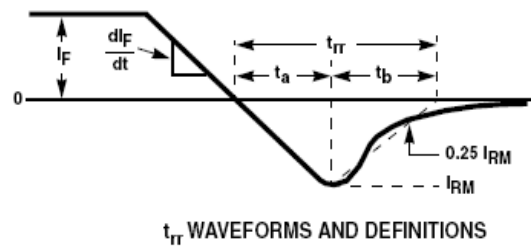
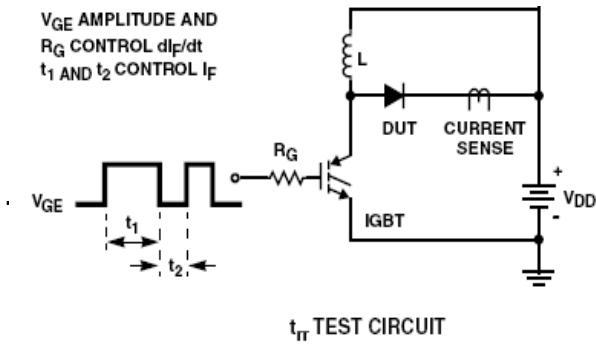
Thermal Characteristics

Symbol	Parameter	Ratings	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	2.0	°C/W

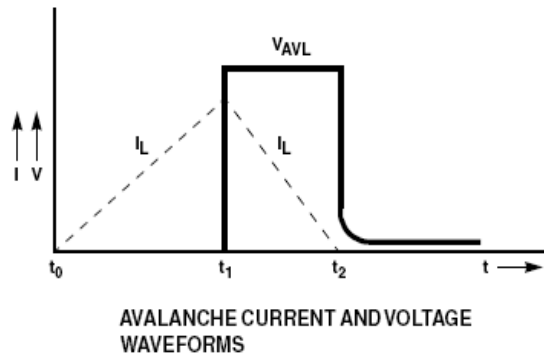
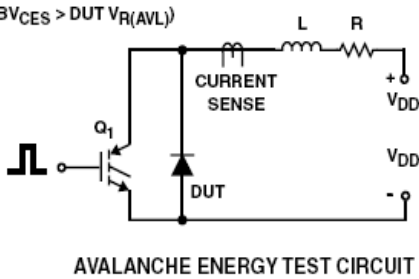
Electrical Characteristics $T_C = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Min.	Typ.	Max.	Units
V_{FM1}	$I_F = 10\text{A}$ $I_F = 10\text{A}$	-	1.8 1.5		V
I_{RM1}	$V_R = 600\text{V}$ $V_R = 600\text{V}$	-	-	10 100	μA
t_{rr}	$I_F = 10\text{A}$, $di/dt = 200\text{A}/\mu\text{s}$, $V_R = 390\text{V}$	-	28 25		ns
W_{AVL}	Avalanche Energy ($L = 40\text{mH}$)	20	-	-	mJ

Notes:

 1: Pulse: Test Pulse width = $300\mu\text{s}$, Duty Cycle = 2%


$L = 40\text{mH}$
 $R < 0.1\Omega$
 $E_{AVL} = 1/2LI^2$
 $Q_1 = \text{IGBT (} BV_{CES} > DUT V_{R(AVL)} \text{)}$



Typical Performance Characteristics

Figure 1. Typical Forward Voltage Drop vs. Forward Current

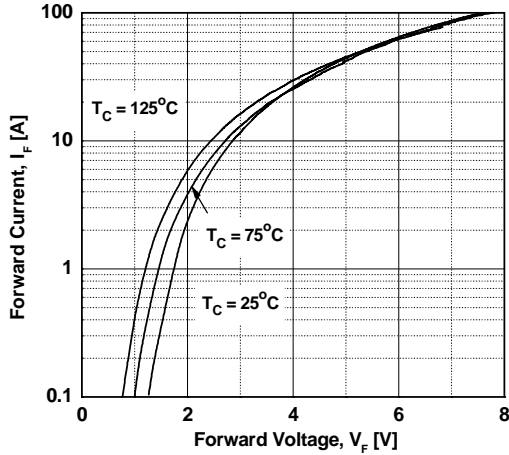


Figure 3. Typical Junction Capacitance

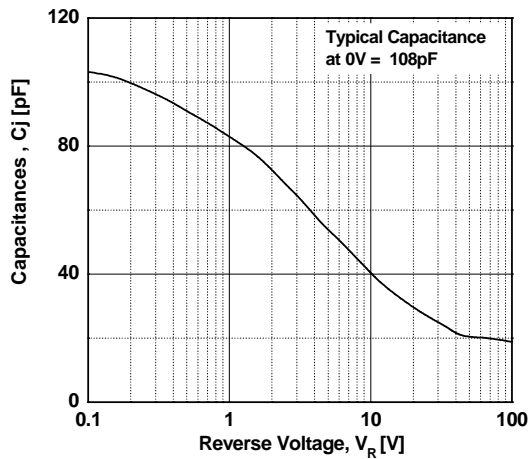


Figure 5. Typical Reverse Recovery Current vs. di/dt

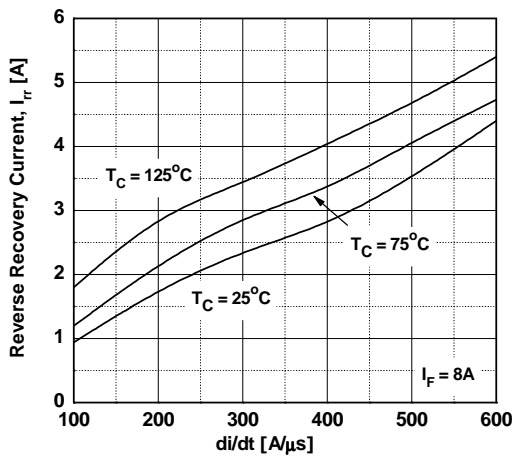


Figure 2. Typical Reverse Current vs. Reverse Voltage

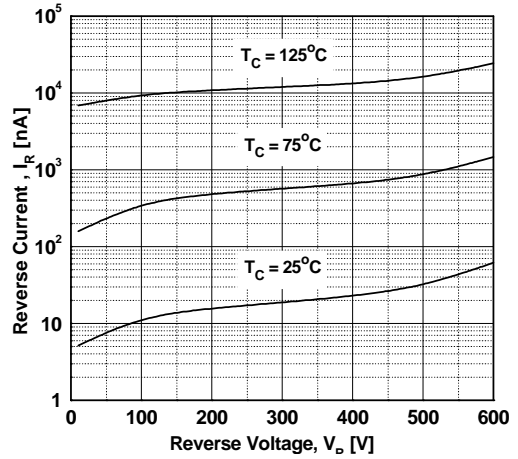


Figure 4. Typical Reverse Recovery Time vs. di/dt

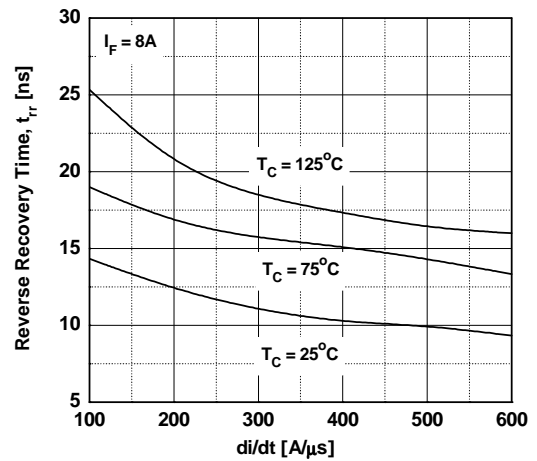
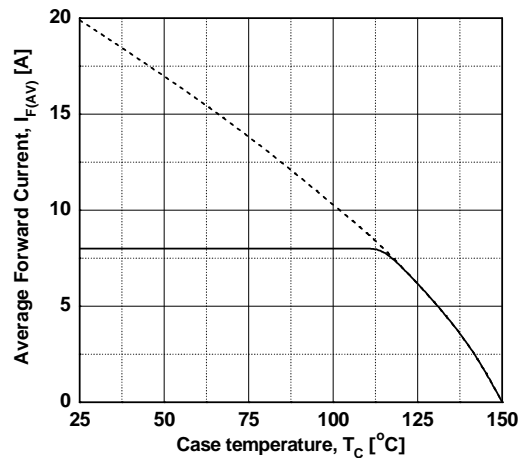
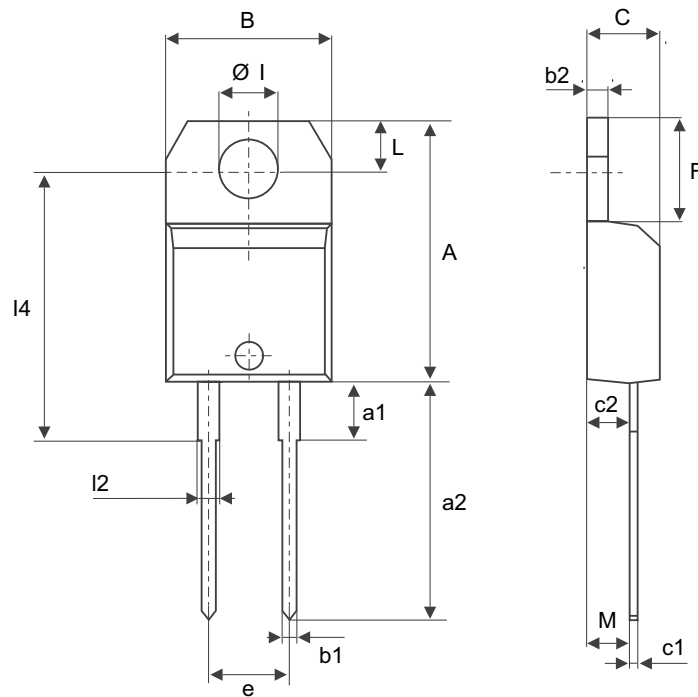


Figure 6. Forward Current Derating Curve



T0-220AC ins. package outline



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	15.20		15.90	0.598		0.625
a1		3.75			0.147	
a2	13.00		14.00	0.511		0.551
B	10.00		10.40	0.393		0.409
b1	0.61		0.88	0.024		0.034
b2	1.23		1.32	0.048		0.051
C	4.40		4.60	0.173		0.181
c1	0.49		0.70	0.019		0.027
c2	2.40		2.72	0.094		0.107
e	4.80		5.40	0.189		0.212
F	6.20		6.60	0.244		0.259
Øl	3.75		3.85	0.147		0.151
l4	15.80	16.40	16.80	0.622	0.646	0.661
L	2.65		2.95	0.104		0.116
l2	1.14		1.70	0.044		0.066
M		2.60			0.102	

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