

Electrical Characteristics

Parameter	Symbol	Test Conditions	Numerical		Unit
			Typ.	Max.	
Forward Voltage	V_F	$I_F=4A, T_j=25^{\circ}C$	1.4	1.65	V
		$I_F=4A, T_j=175^{\circ}C$	1.7	2.3	
Reverse Current	I_R	$V_R=650V, T_j=25^{\circ}C$	1	10	μA
		$V_R=650V, T_j=175^{\circ}C$		50	
Total Capacitive Charge	Q_C	$V_R=400V, T_j=25^{\circ}C$ $Q_C = \int_0^{V_R} C(V)dV$		-	nC
Total Capacitance	C	$V_R=0V, T_j=25^{\circ}C, f=1MHz$	230	260	pF
		$V_R=200V, T_j=25^{\circ}C, f=1MHz$	24	26	
		$V_R=400V, T_j=25^{\circ}C, f=1MHz$	20	21	

Performance Graphs

1) Forward IV characteristics as a function of T_j :

2) Reverse IV characteristics as a function of T_j :

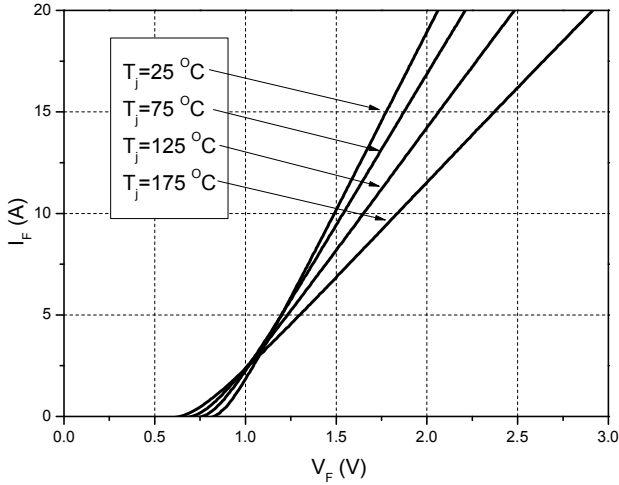


Figure 1. Forward Characteristics

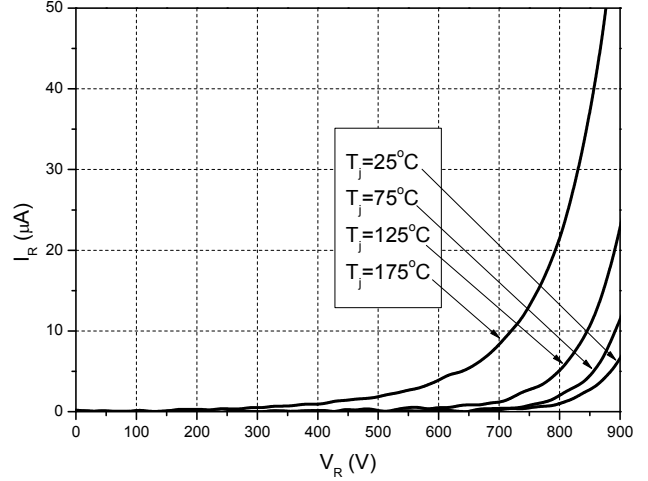


Figure 2. Reverse Characteristics

3)Current Derating

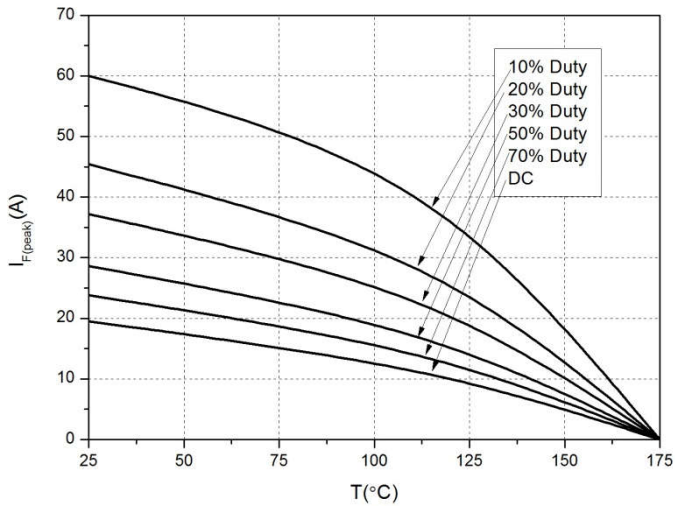


Figure 3. Current Derating

4)Capacitance vs. reverse voltage :

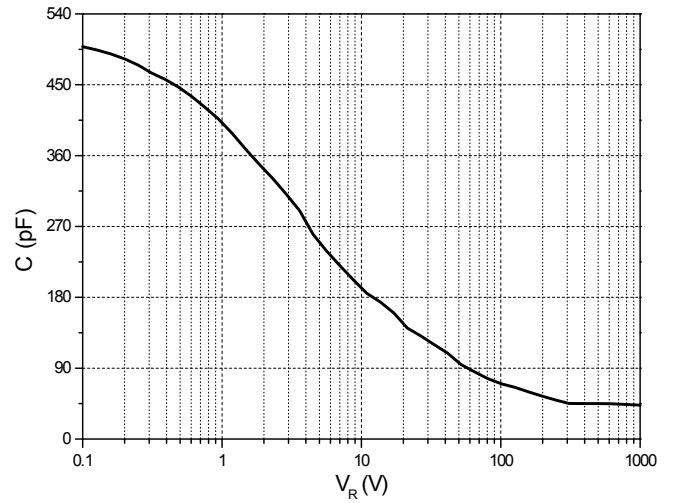
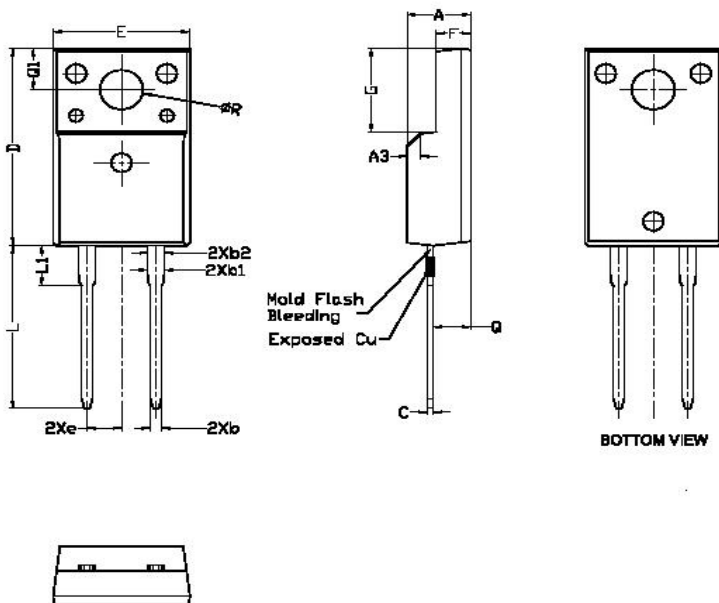


Figure 4.Capacitance vs. Reverse Voltage

Package TO-220-2F



SYMBOL	DIMENSIONS		
	Min.	Nom.	Max.
A	4,60	4,70	4,80
b	0,70	0,80	0,91
b1	1,20	1,30	1,47
b2	1,10	1,20	1,30
C	0,45	0,50	0,63
D	15,80	15,87	15,97
e	2,54		
E	10,00	10,10	10,30
F	2,44	2,54	2,64
G	6,50	6,70	6,90
L	12,90	13,10	13,30
L1	3,13	3,23	3,33
Q	2,65	2,75	2,85
Q1	3,20	3,30	3,40
ΦR	3,08	3,18	3,28

DISCLAIMER

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Copyright ©2018 Formosa Semiconductor Company Ltd.
All rights reserved.