

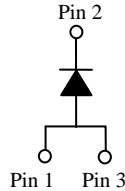
RoHS Compliant Product  
 A suffix of "-C" specifies halogen & lead-free

**FEATURES**

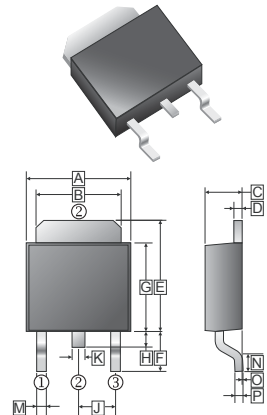
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

**MECHANICAL DATA**

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208
- Polarity: As Marked
- Mounting position: Any
- Weight: 0.7 grams



**TO-252(D-PACK)**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.35	6.90	J	2.30 REF.	
B	4.95	5.50	K	0.64	1.14
C	2.10	2.50	M	0.50	1.14
D	0.43	0.9	N	1.3	1.8
E	6.0	7.5	O	0	0.13
F	2.80 REF.		P	0.58 REF.	
G	5.40	6.40			
H	0.60	1.20			

**PACKAGE INFORMATION**

Package	MPQ	Leader Size
TO-252	2.5K	13 inch

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
 For capacitive load, de-rate current by 20%.)

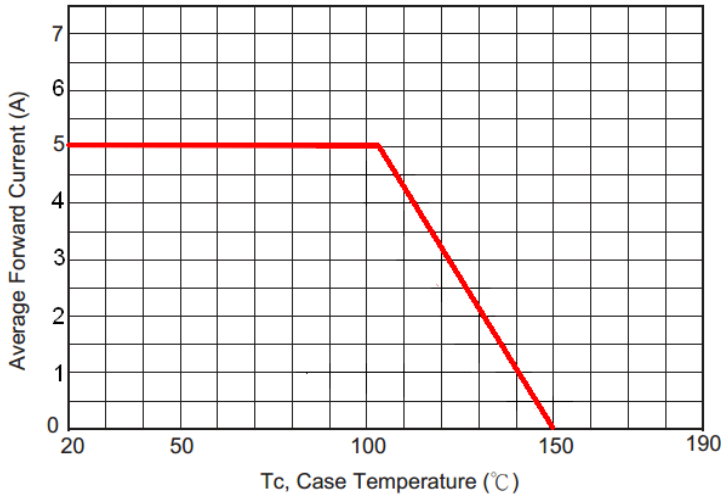
PARAMETER	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Maximum RMS Voltage	$V_{RMS}$	140	V
Maximum DC Blocking Voltage	$V_{DC}$	200	V
Maximum Average Forward Rectified Current	$I_F$	5	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load	$I_{FSM}$	120	A
Maximum Instantaneous Forward Voltage @ 5A	$T_A=25^{\circ}C$	0.92	V
	$T_A=100^{\circ}C$	0.75	
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 3)	$T_A=25^{\circ}C$	0.1	mA
	$T_A=100^{\circ}C$	5	
Typical Junction Capacitance (Note 1)	$C_J$	350	pF
Voltage Rate Of Change (Rated $V_R$ )	$dv / dt$	10000	V / $\mu s$
Typical Thermal Resistance (Note 2)	$R_{\theta jc}$	10	$^{\circ}C/W$
Operating & Storage Temperature	$T_J, T_{STG}$	-55~150	$^{\circ}C$

NOTES:

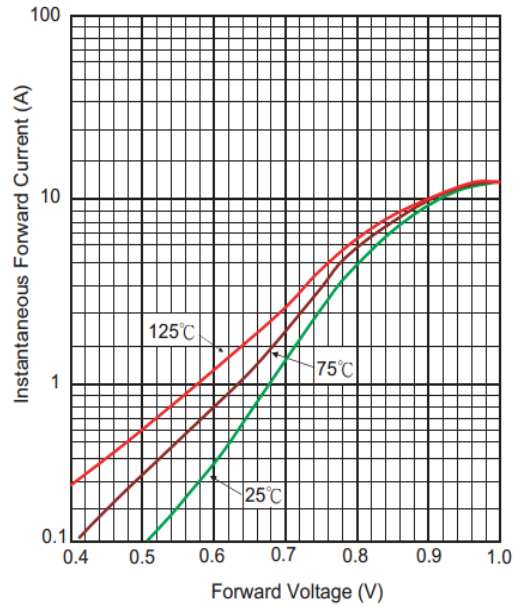
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. FR4 Board Heat sink size: 10\*10\*0.2mm.
3. Pulse test: 300uS pulse width, 1% duty cycle.

**RATINGS AND CHARACTERISTIC CURVES**

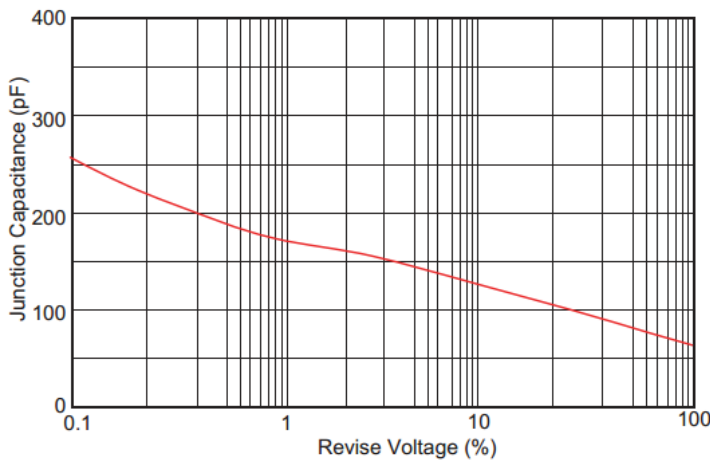
Typical Forward Current Derating Curve



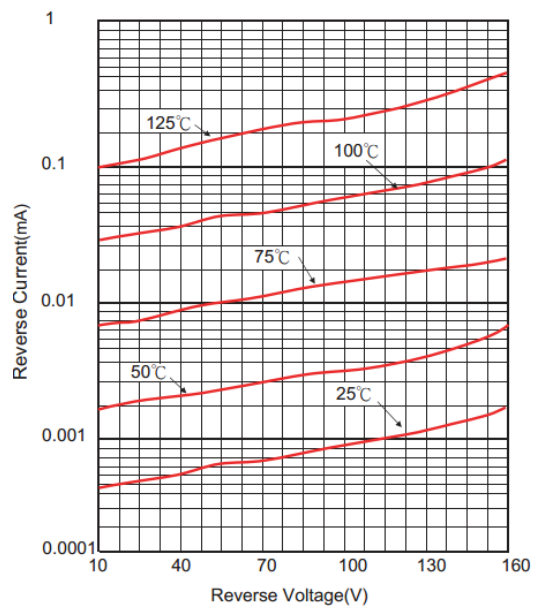
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

