

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

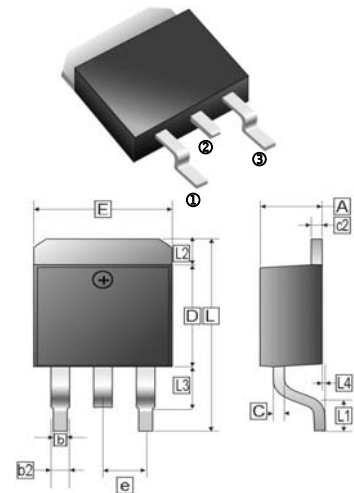
## FEATURES

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

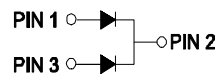
## MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 2.24 grams

## TO-263(D<sup>2</sup>-PACK)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.00	4.85	c2	1.10	1.65
b	0.51	1.00	b2	1.34	REF
L4	0.00	0.30	D	8.0	9.65
C	0.30	0.74	e	2.54	REF
L3	1.50	REF	L	14.6	16.1
L1	2.5	REF	L2	1.27	REF
E	9.60	10.67			



## MAXIMUM RATINGS

(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%.)

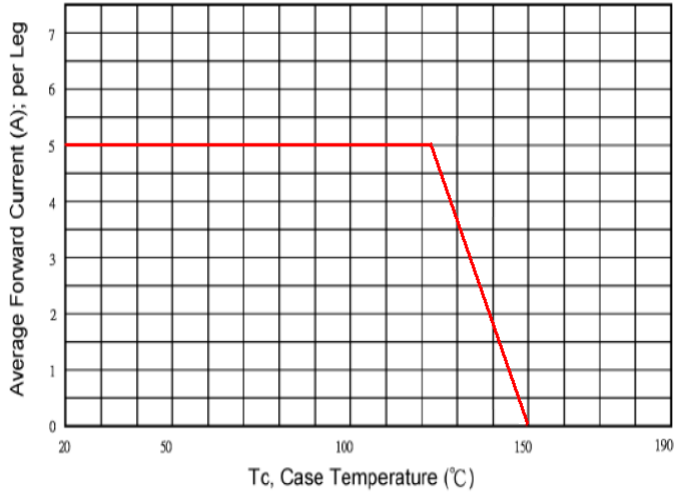
PARAMETER		SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	150	V
Maximum RMS Voltage		$V_{RMS}$	150	V
Maximum DC Blocking Voltage		$V_{DC}$	150	V
Maximum Average Forward Rectified Current	(per leg)	$I_F$	5	A
	(per device)		10	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load		$I_{FSM}$	130	A
Maximum Instantaneous Forward Voltage @5A	$T_A=25^\circ\text{C}$	$V_F$	0.86	V
	$T_A=100^\circ\text{C}$		0.75	
Maximum Reverse Current at Rated VRRM Per Diode <sup>2</sup>	$T_A=25^\circ\text{C}$	$I_R$	0.1	mA
	$T_A=100^\circ\text{C}$		8	
Typical Junction Capacitance <sup>1</sup>		$C_J$	350	pF
Voltage Rate Of Change		dv/dt	10000	V / $\mu\text{s}$
Typical Thermal Resistance <sup>3</sup>		$R_{\theta JC}$	6	$^\circ\text{C} / \text{W}$
Operating & Storage Temperature		$T_J, T_{STG}$	-55~150	$^\circ\text{C}$

### NOTES:

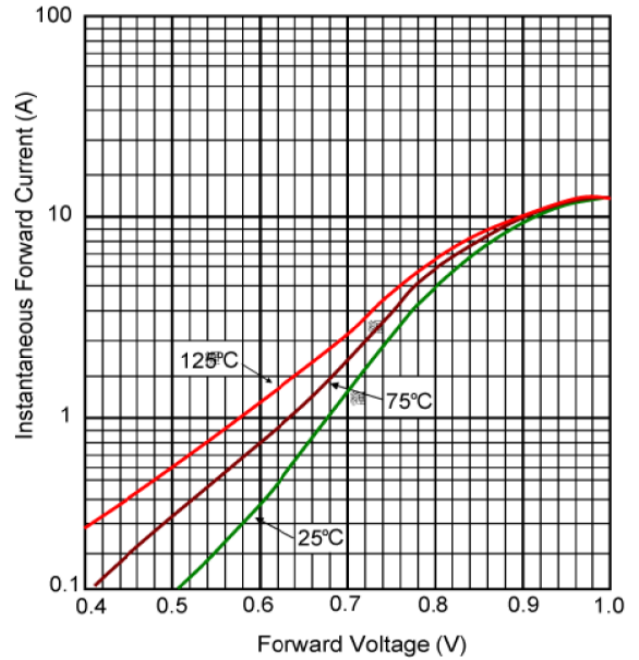
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Plus test: 300 $\mu\text{s}$  Pulse width, 1% duty cycle..
3. FR4 Board Heat sink size: 10\*10\*0.2mm.

**RATINGS AND CHARACTERISTIC CURVES**

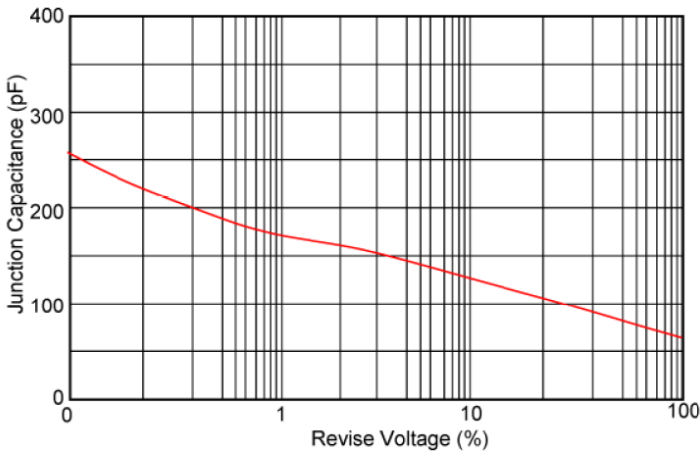
Typical Forward Current Derating Curve



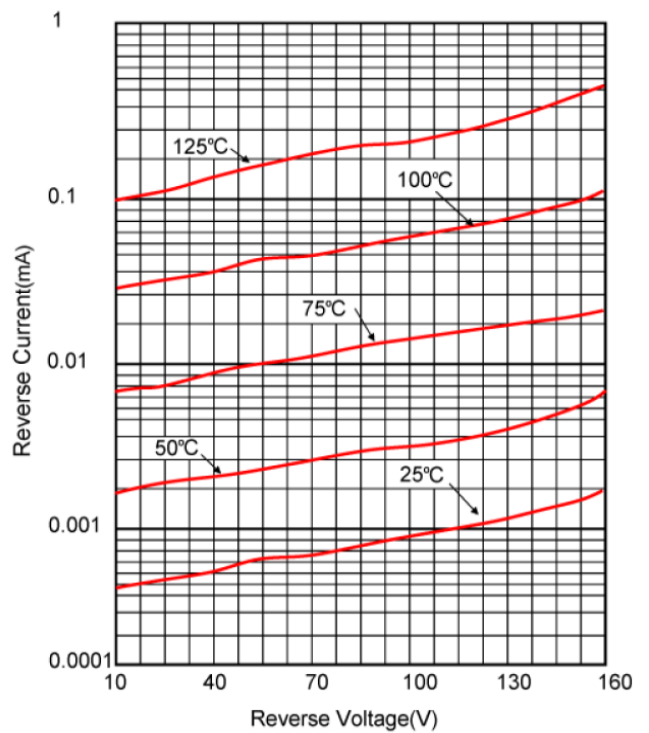
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

