

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

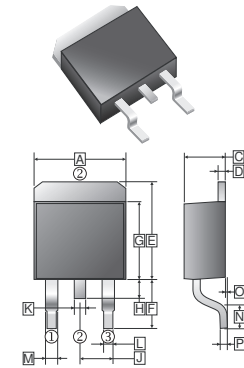
FEATURES

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

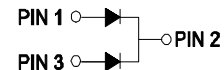
MECHANICAL DATA

- 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(D²-PACK)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.50	10.50	H	1.50	REF.
C	4.30	4.80	J	2.54 TYP.	
D	1.17	1.45	K	-	-
E	9.50	10.50	L	0.71	1.00
F	4.33	5.93	M	1.17	1.47
G	8.50	9.00	P	0.31	0.53



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%.)

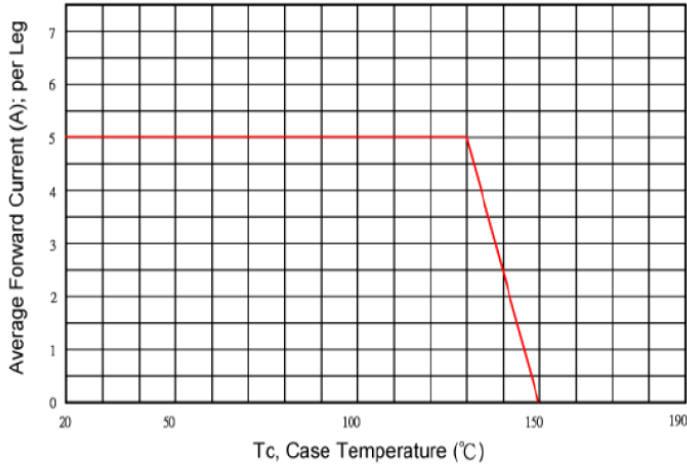
PARAMETER		SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	150	V
Maximum RMS Voltage		V_{RMS}	150	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Rectified Current	(per leg)	I_F	5	A
	(per device)		10	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed 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 V_{RRM} Per Diode ²	$T_A=25^\circ\text{C}$	I_R	0.1	mA
	$T_A=100^\circ\text{C}$		8	
Typical Junction Capacitance ¹		C_J	350	pF
Voltage Rate Of Change		dv/dt	10000	V / μs
Typical Thermal Resistance		$R_{\theta JA}$	50	$^\circ\text{C} / \text{W}$
		$R_{\theta JC}$	3	$^\circ\text{C} / \text{W}$
Operating & Storage Temperature		T_J, T_{STG}	-55~150	$^\circ\text{C}$

NOTES:

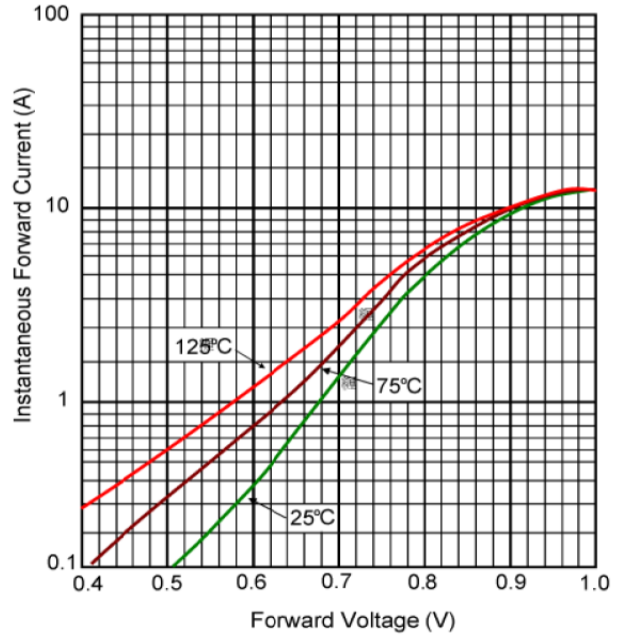
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Plus test: 300 μs Pulse width, 1% duty cycle..

RATINGS AND CHARACTERISTIC CURVES

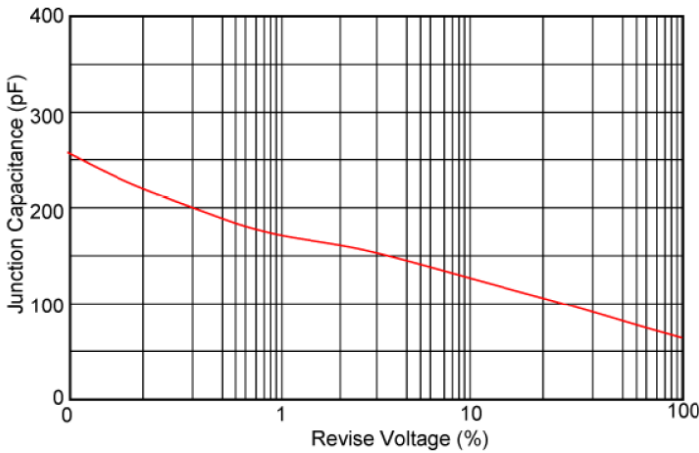
Typical Forward Current Derating Curve



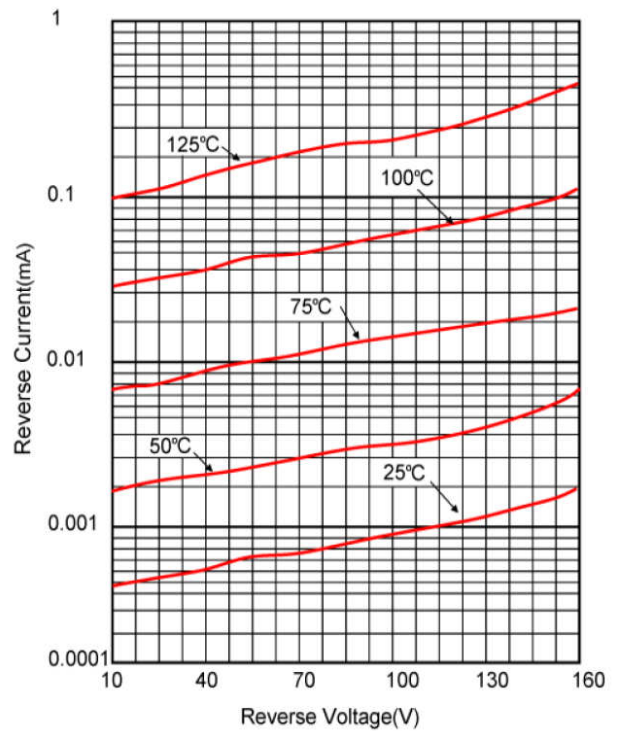
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

