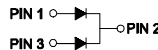
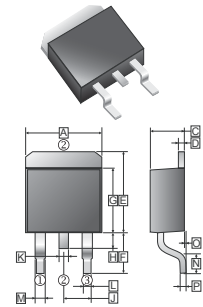


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

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

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



## 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

## 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%.

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

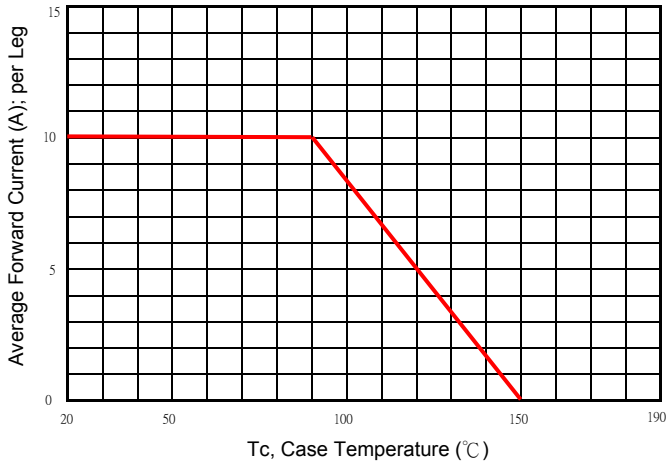
PARAMETER		SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	200	V
Maximum RMS Voltage		$V_{RMS}$	140	V
Maximum DC Blocking Voltage		$V_{DC}$	200	V
Maximum Average Forward Rectified Current	Per Leg	$I_F$	15	A
	Per Device		20	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load		$I_{FSM}$	180	A
Maximum Instantaneous Forward Voltage @ 15A Per Leg	$T_A=25^\circ\text{C}$	$V_F$	0.92	V
	$T_A=125^\circ\text{C}$		0.80	
Maximum Reverse Current at Rated $V_R$ Per Diode (Note 3)	$T_A=25^\circ\text{C}$	$I_R$	0.1	mA
	$T_A=125^\circ\text{C}$		5	
Voltage Rate Of Change		$dv/dt$	10000	V/us
Typical Junction Capacitance (Note 1 )		$C_J$	2400	pF
Typical Thermal Resistance	$R_{\theta JA}$	$R_\theta$	50	°C/W
	$R_{\theta JC}$		3	
Operating & Storage Temperature		$T_J, T_{STG}$	-55~150	°C

### NOTES:

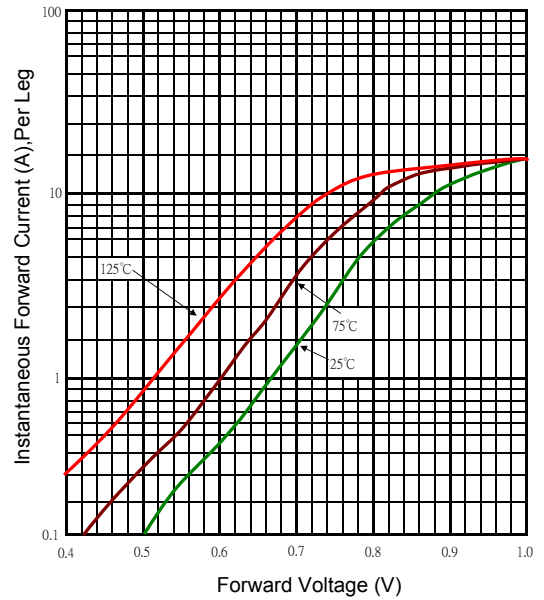
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse test: Pulse width 40ms.

**RATINGS AND CHARACTERISTIC CURVES**

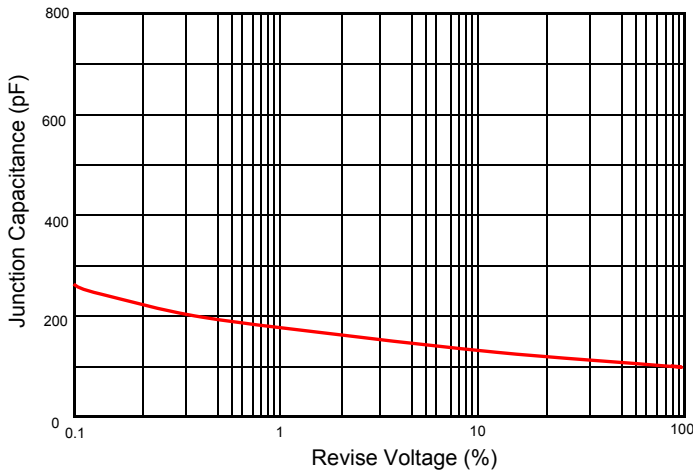
Typical Forward Current Derating Curve



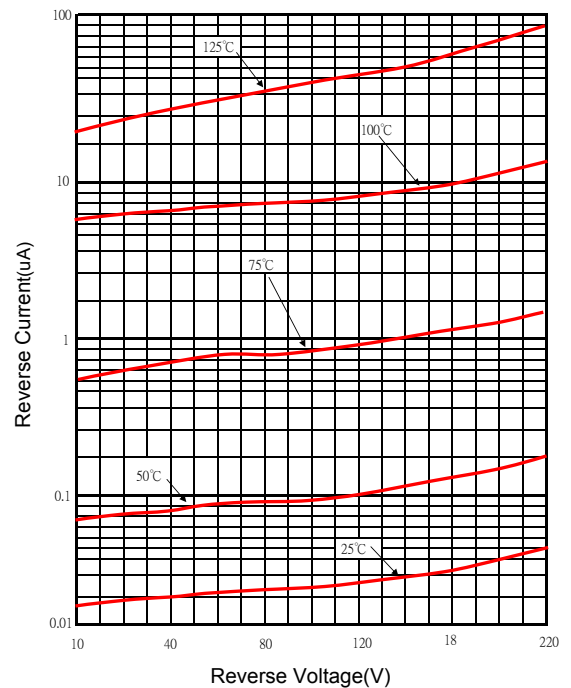
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

