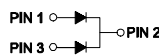
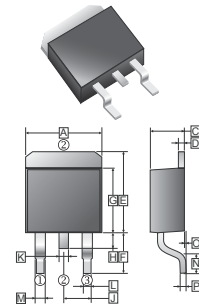


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

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

TO-263(D²-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

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%.

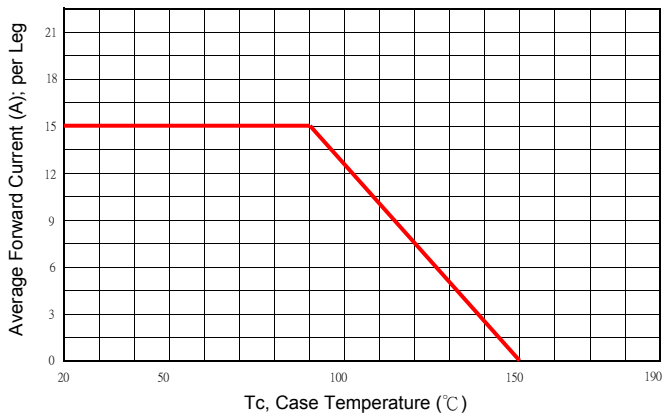
PARAMETER	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	I_F	30	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	180	A
Maximum Instantaneous Forward Voltage @ 15A	V_F	0.72	V
Maximum Reverse Current at Rated V_R Per Diode (Note 3)	$T_A=25^\circ\text{C}$	0.5	mA
	$T_A=100^\circ\text{C}$	12	
Typical Junction Capacitance (Note 1)	C_J	1700	pF
Voltage Rate Of Change	dv/dt	10000	V/us
Typical Thermal Resistance	$R_{\theta JA}$	50	$^\circ\text{C/W}$
	$R_{\theta JC}$	3.0	$^\circ\text{C/W}$
Operating & Storage Temperature	T_J, T_{STG}	-55~150	$^\circ\text{C}$

NOTES:

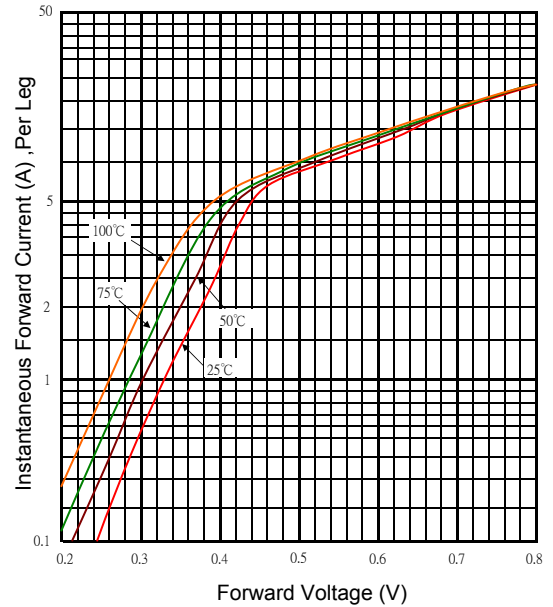
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse test: Pulse width 40ms.

RATINGS AND CHARACTERISTIC CURVES

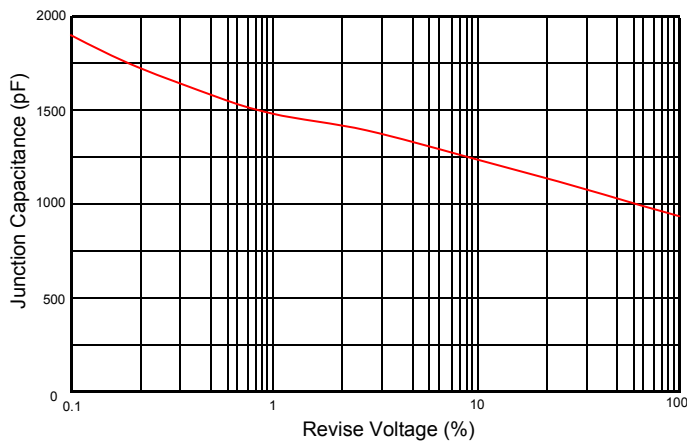
Typical Forward Current Derating Curve



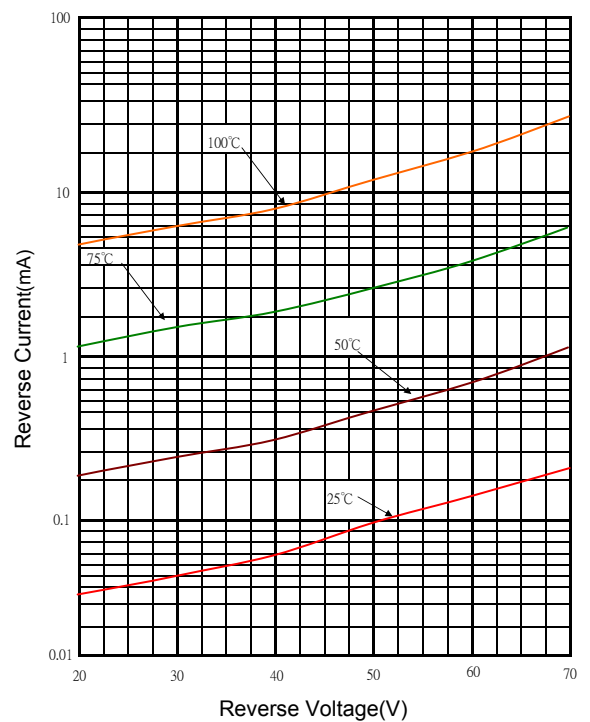
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

