

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

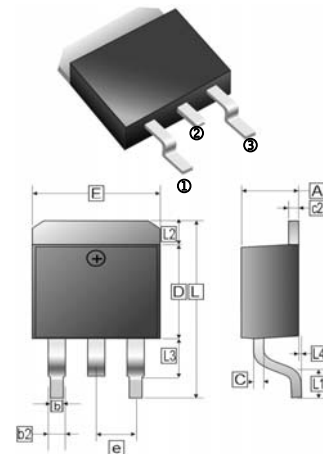
FEATURES

- 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: 1.6 grams

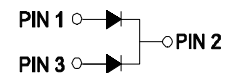
TO-263(D²-PACK)



PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-263	0.8K	13 inch

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	15.88
L1	1.78	2.79	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	10	A
	(per device)		20	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load		I_{FSM}	150	A
Maximum Instantaneous Forward Voltage @10A		V_F	0.87	V
Maximum Reverse Current at Rated VRRM Per Diode ²	$T_A=25^{\circ}C$	I_R	0.05	mA
	$T_A=100^{\circ}C$		5	
Typical Junction Capacitance ¹		C_J	350	pF
Voltage Rate Of Change		dv/dt	10000	V / μs
Typical Thermal Resistance ³		$R_{\theta JC}$	6	$^{\circ}C / W$
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. Plus test: 300 μs Pulse width, 1% duty cycle..
3. FR4 Board Heat sink size: 10*10*0.2mm.

RATINGS AND CHARACTERISTIC CURVES

Typical Forward Current Derating Curve

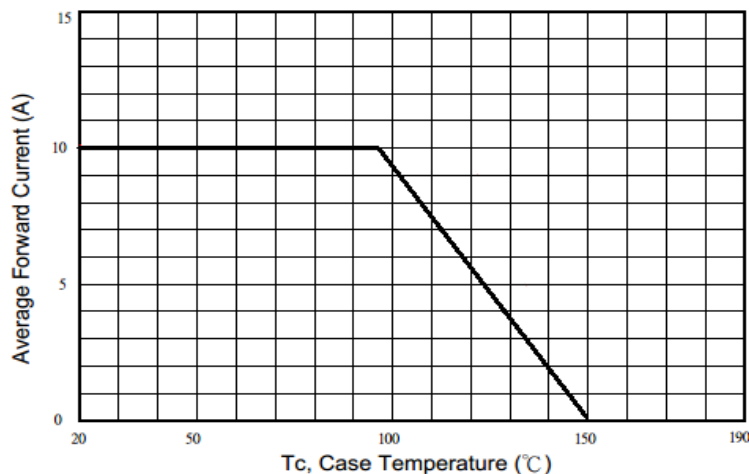


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

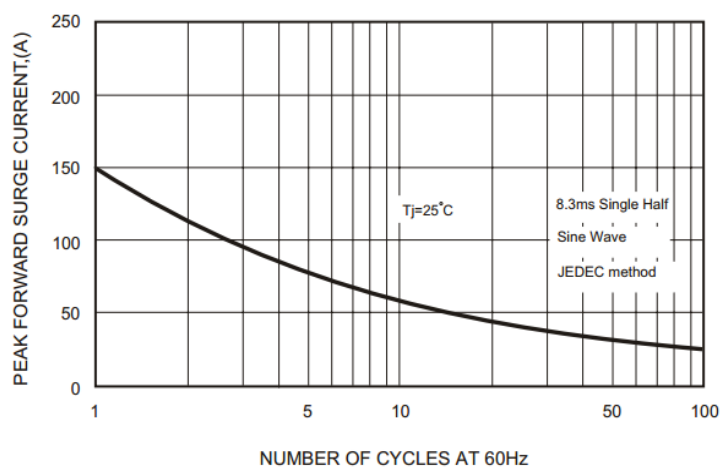


FIG.4-TYPICAL JUNCTION CAPACITANCE

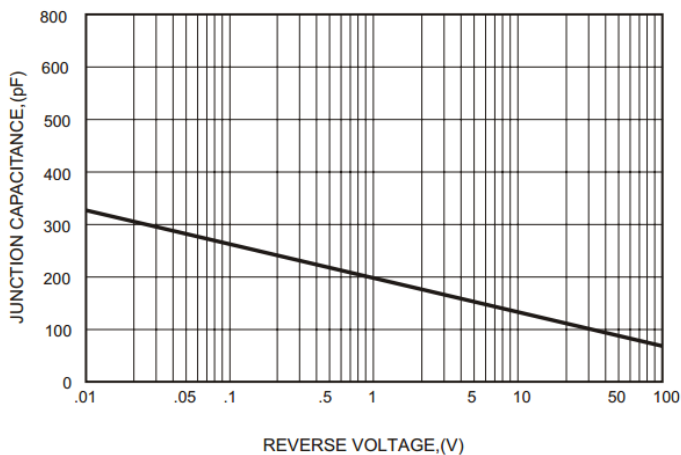


FIG.2-TYPICAL FORWARD CHARACTERISTICS

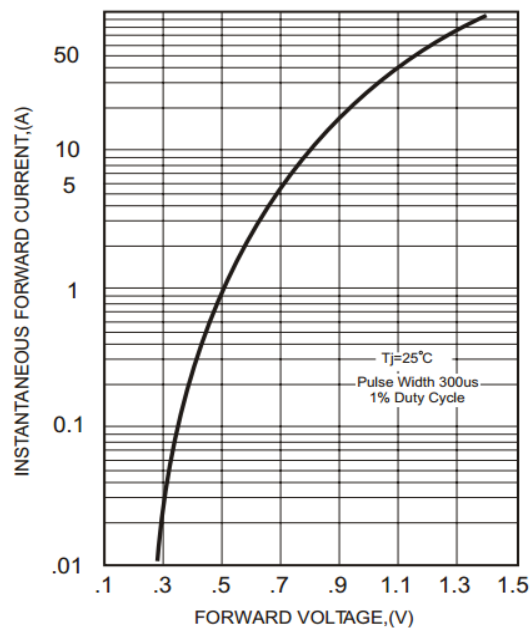


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

