

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

FEATURES

- Plastic package has underwriters laboratory Flammability classification 94V-0
Flame retardant epoxy molding compound
- Low forward voltage, high current capability
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

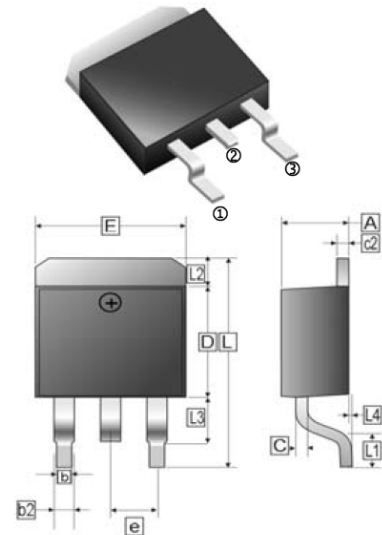
MECHANICAL DATA

- Case: TO-263(D²-Pack) Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As Marked
- Mounting position: Any

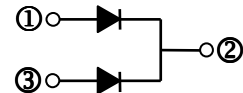
PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-263	0.8K	13 inch

TO-263(D²-Pack)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.00	4.87	c2	1.07	1.65
b	0.51	1.01	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}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Current	I_F	10	A
Peak Forward Surge Current@8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	110	A
Maximum Forward Voltage @ $I_F=5A$	V_F	0.85	V
Maximum DC Reverse Current Rated DC Blocking Voltage	I_R	$T_J=25^\circ C$	0.02
		$T_J=100^\circ C$	20
Typical Thermal Resistance from Junction to Case	$R_{\theta JC}$	3	°C/W
Operating & Storage Temperature	T_J, T_{STG}	-55~150	°C

RATINGS AND CHARACTERISTIC CURVES

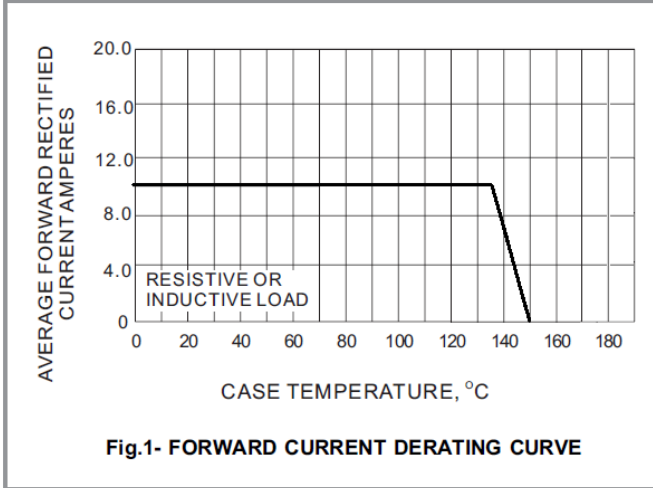


Fig.1- FORWARD CURRENT DERATING CURVE

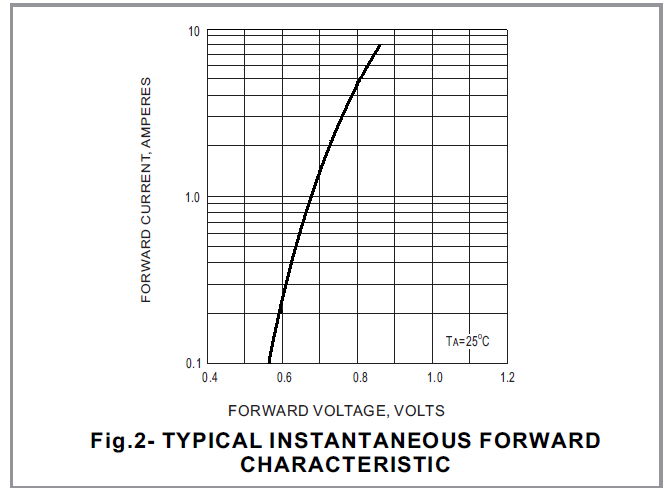


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

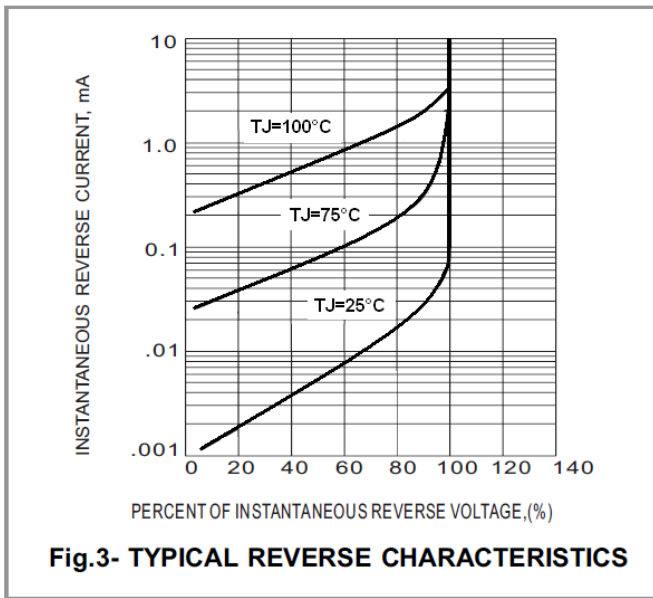


Fig.3- TYPICAL REVERSE CHARACTERISTICS

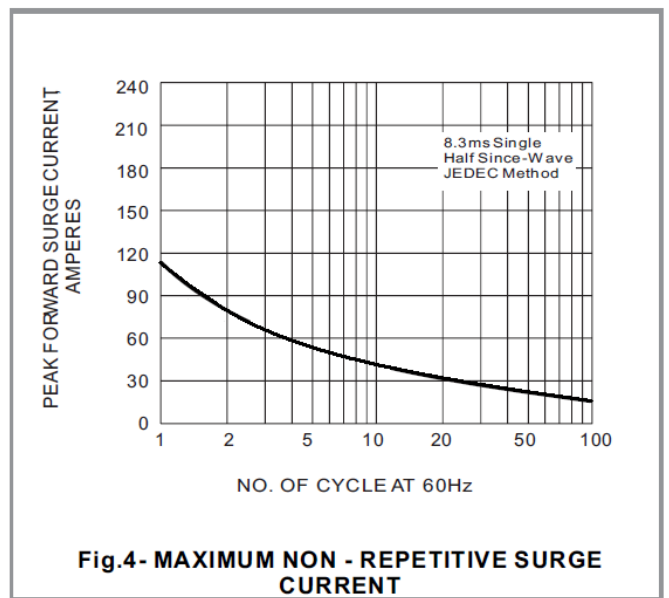


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT