

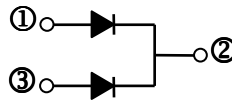
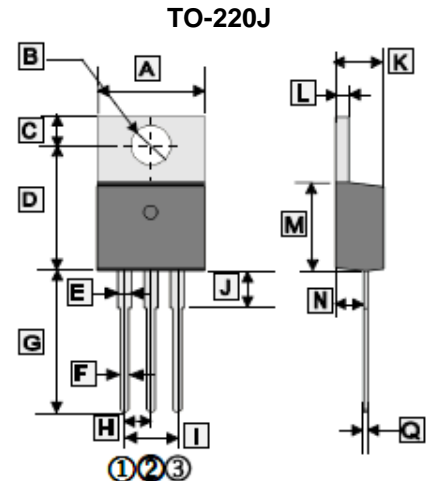
RoHS Compliant Product  
A suffix of "-C" specifies halogen free

## FEATURES

- Metal silicon junction and majority carrier conduction
- Low power loss
- High efficiency
- High current capability
- For use in low voltage, high frequency inverters free wheeling , and polarity protection applications.
- Lead free in comply with EU RoHS

## MECHANICAL DATA

- Case : TO-220J molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : As marked
- Mounting Position : Any



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.57	10.57	I	4.68	5.48
B	3.54	4.14	J	2.95	3.96
C	2.54	2.94	K	4.27	4.87
D	11.86	13.26	L	1.07	1.47
E	0.97	1.57	M	8.0	10.0
F	0.51	1.11	N	2.03	2.92
G	12.7	13.8	Q	0.30	0.65
H	2.540 TYP.				

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS** (Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20% )

Parameter	Symbol	Rating	Unit
Maximum Recurrent 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@ see fig. 1	$I_F$	20	A
Peak Forward Surge Current@ 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	150	A
Maximum Instantaneous Forward Voltage@ 10A, per leg	$V_F$	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_J=25^\circ\text{C}$	0.05	mA
	$T_J=125^\circ\text{C}$	20	
Typical Thermal Resistance from Junction to Case	$R_{\theta JC}$	2	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55~150	$^\circ\text{C}$

**CHARACTERISTIC CURVES**

