

Main Product Characteristics

$I_{F(AV)}$	2 X 15A
V_{RWM}	200V
T_J	175°C

■ Features

- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part.
- Lead free in compliance with EU RoHS.

■ Mechanical data

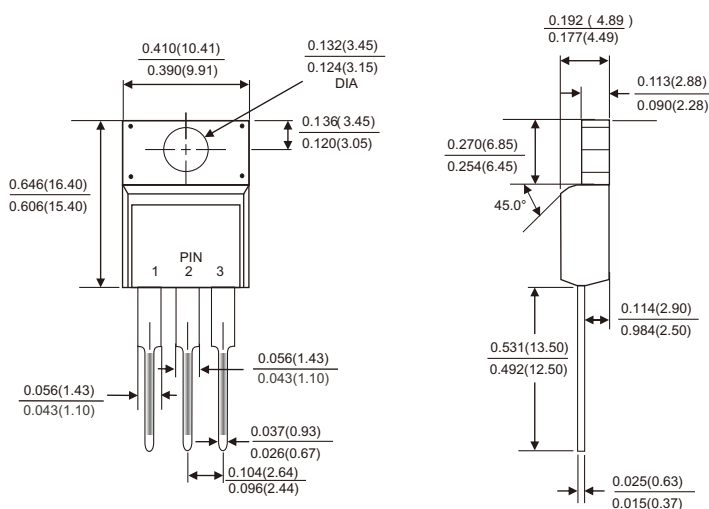
- Epoxy : UL94V-0 rated flame retardant.
- Case : JEDEC ITO-220AB-J molded plastic body.
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity: As marked.
- Weight : Approximated 1.95 gram.

■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.

■ Outline

ITO-220AB-J



Dimensions in inches and (millimeters)

■ Circuit Diagram



Parameter	Conditions	Symbol	MBRF30200CT-D-J	UNIT
Working peak reverse voltage		V_{RWM}	200	V
Forward rectified current (total device)		I_O	30	A
Forward surge current (per diode)	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	200	A
Peak repetitive reverse surge current (per diode)	Pulse width 2us, 1000Hz, square wave at T_A 25°C, 10 cycles	I_{RRM}	1	A
Typical Thermal resistance(per diode)	Junction to case	$R_{\theta JC}$	8	°C/W
	Junction to Ambient	$R_{\theta JA}$	50	°C/W
Storage temperature		T_{STG}	-55 ~ +175	°C
Operating Junction temperature		T_J	-55 ~ +175	°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop (per diode)	$I_F = 15A, T_J = 25^\circ C$	V_F			950	mV
	$I_F = 15A, T_J = 125^\circ C$				870	
Reverse current (per diode)	$V_R = 200V, T_J = 25^\circ C$	I_R			0.1	mA
	$V_R = 200V, T_J = 125^\circ C$				10	
Reverse Breakdown Voltage (per diode)	$I_R = 0.5mA, T_J = 25^\circ C$	V_{BR}	200			V

Rating and characteristic curves

Fig. 1 - Forward Characteristics

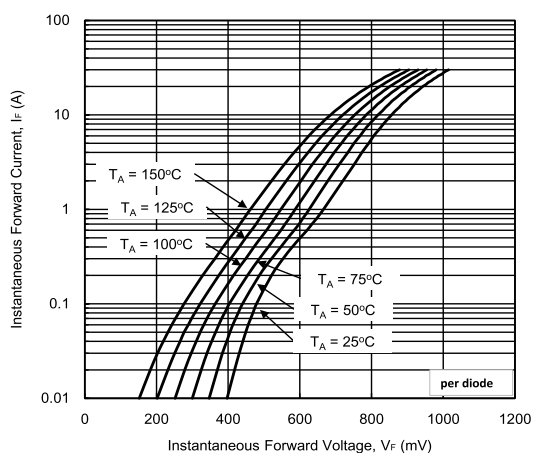


Fig. 2 - Reverse Characteristics

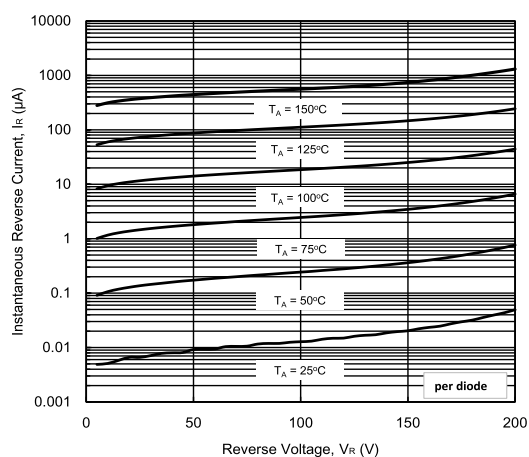


Fig. 3 - Forward Power Dissipation

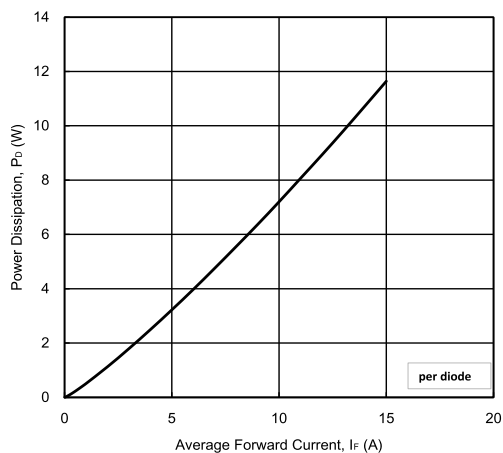


Fig. 4 - Forward Current Derating Curve

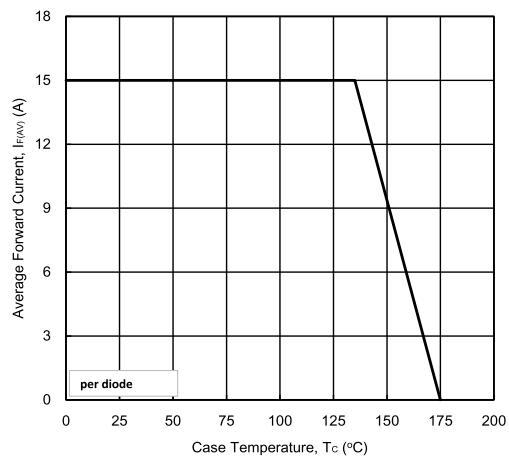
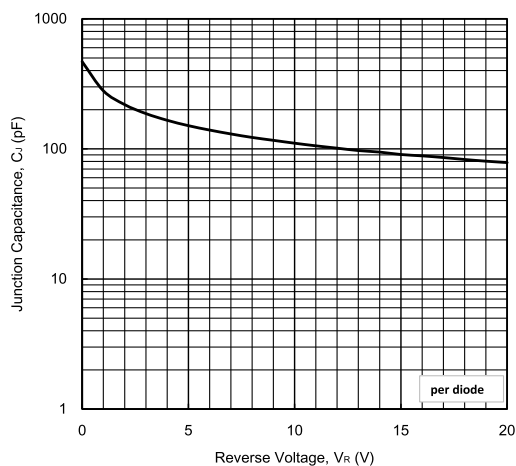
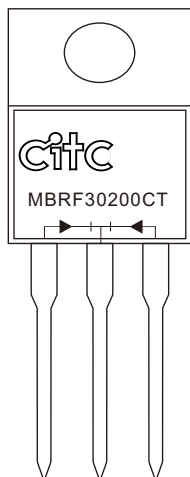


Fig. 5 - Junction Capacitance



■ Marking information



MBRF30200CT : Product type marking code

 : CITC Logo

■ Ordering/Packing information

Part number		Case	Q'TY/Tube (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
Halogen	MBRF30200CT-D-J	ITO-220AB-J	50	1000	5000
Halogen free	MBRF30200CTG-D-J				

Notes : For packaging details please reference our website at <http://www.citcorp.com.tw/tchinese/products/index.php>

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