



BCR20PM-16L 20A TRIAC

Rev.A.1.1

The BCR20PM-16L triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Compared to traditional triac, BCR20PM-16L provides a very high switching capability up to junction temperatures of 150°C. By using an external plastic package, BCR20PM-16L provides a Rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

Parameter	Symbol	Value	Unit
Rated current	$I_{T(RMS)}$	20	A
Rated voltage	$V_{T(RMS)}$	2000	V
Peak current	$I_{T(P)}$	40	A
Peak voltage	$V_{T(P)}$	2000	V
On-state resistance	$r_{DS(on)}$	0.1	Ω
Thermal resistance	$R_{\theta JA}$	65	$^{\circ}C/W$
Storage temperature	T_{STG}	-55 ~ 150	$^{\circ}C$
Junction temperature	T_{J}	150	$^{\circ}C$

Average gate power dissipation (T_j)

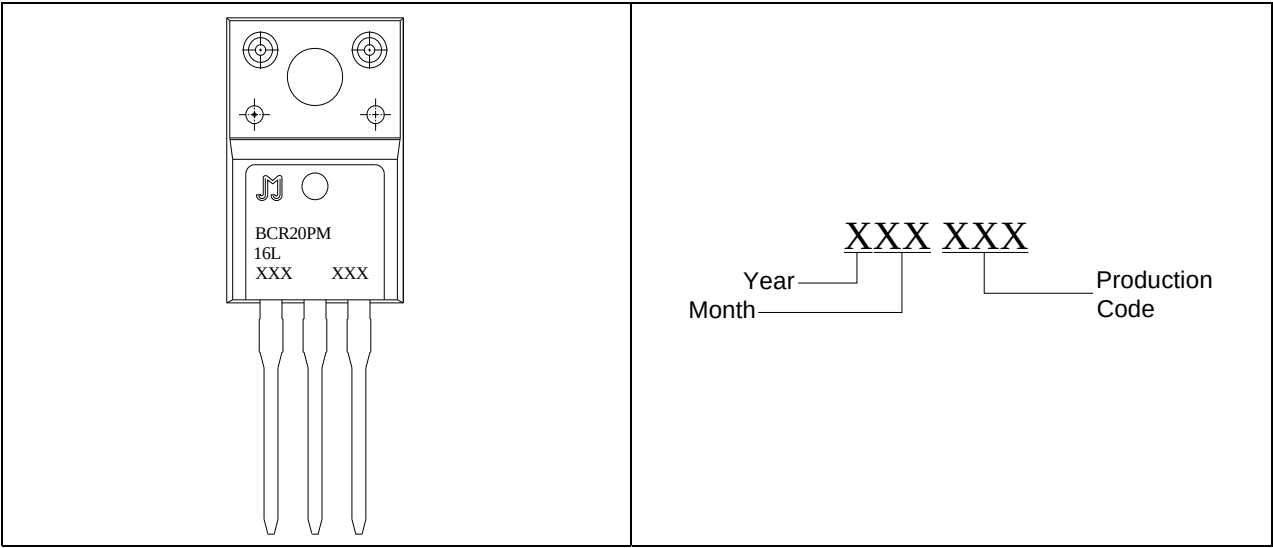


FIG.1: Maximum power dissipation versus RMS on-state current



FIG.2: RMS on-state current versus case temperature



FIG.5: Non-repetitive surge p F -1 ! s

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
BCR20M-16L	800	35	TO-220F(Ins)	50	Tube

Document Revision History

Date	Revision	Changes
Apr.11, 2023	A.1.0	Last updated
Oct.10, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

