

isc Triacs

BCR16LM-12LB

FEATURES

• I_T (RMS): 16 A V_{DRM}: 600 V

• I_{FGTI}, I_{RGTI}, I_{RGTIII}: 30mA

Insulated Type

• Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Motor control, heater control

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	Value	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave) Tc=80°C	16	Α
I _{TSM}	Non repetitive surge peak on-state current (half sine cycle, Tj=25℃) F=50HZ t=20ms	160	А
l²t	I ² t Value for fusing tp=10ms	144	A ² S
P _{G(AV)}	Average gate power dissipation	1	W
T _j	Operating junction temperature	-40-125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$
R _{th(j-c)}	Thermal resistance, junction to case	1.3	°C/W

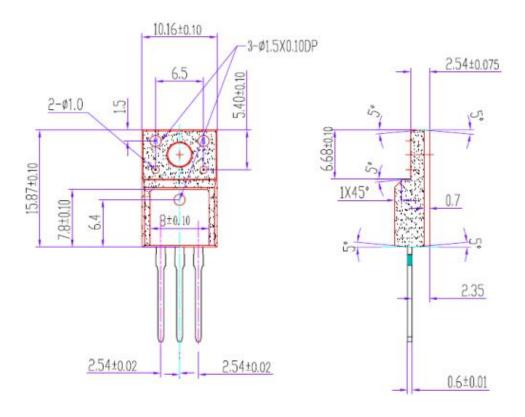
ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBO L	PARAMETER		CONDITIONS	MIN	MAX	UNI T
I _{RRM}	Repetitive peak reverse current		V _R =V _{RRM} , V _R =V _{RRM} , Tj=125°C		0.00 5 1	mA
I _{DRM}	Repetitive peak o current	ff-state	V _D =V _{DRM} , V _D =V _{DRM} , Tj=125°C		0.00 5 1	mA
I _{GT}	Gate trigger current I	- II -III	V _D =12V; R _L = 33 Ω		30	mA
IH	Holding current		I _{GT} = 0.5A,		60	mA
V_{GT}	Gate trigger voltage I	-]] -]]]	V_D =12V; R_L = 33 Ω		1.5	V
V _{TM}	On-state voltage		I _{TM} =32A , tp=380μs	·	1.5	V



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TO-220F outline dimensional drawing



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