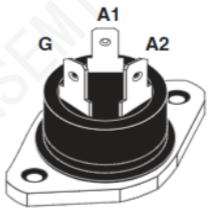
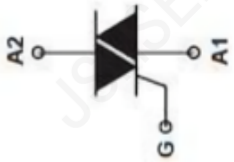
FEATURES

- With RD91 insulated package
- Suitables for general purpose where high surge current capability is required.

Application such as phase control and tatic switching on inductive or resistive load.



RD91



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
$I_{T(RMS)}$	RMS on-state current (full sine wave)T_j=90℃	25	A
I_{TSM}	Non-repetitive peak on-state current t_p=8.3ms	260	A
T_j	Operating junction temperature	125	℃
T_{stg}	Storage temperature	-45~150	℃
$P_{G(AV)}$	Average gate power dissipation(T_j=125℃)	1	W
$R_{th(j-c)}$	Thermal resistance, junction to case	1.1	℃/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	50	℃/W

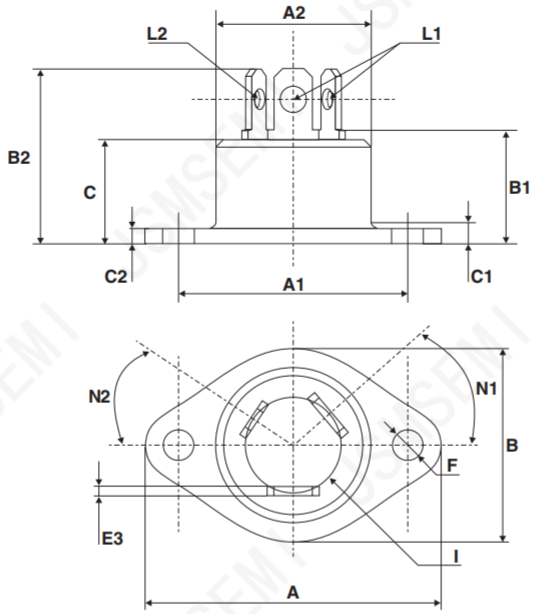
ELECTRICAL CHARACTERISTICS (TC=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		V_R=V_{RRM}, V_R=V_{RRM}, Tj=125℃	0.01 3.0	mA
I_{DRM}	Repetitive peak off-state current		V_D=V_{DRM}, V_D=V_{DRM}, Tj=125℃	0.01 3.0	mA
I_{GT}	Gate trigger current	I	V_D=12V; R_L= 33Ω	50	mA
		II		50	
		III		50	
		IV		100	
I_H	Holding current		I_{GT}= 0.5A, Gate Open	80	mA
V_{GT}	Gate trigger voltage all quadrant		V_D=12V; R_L= 33Ω	1.3	V
V_{TM}	On-state voltage		I_T= 35A; t_p= 380μs	1.55	V

Ordering Information

Order number	Package	Marking	Operation Temperature Range	MSL Grade	Ship, Quantity	Green
BTA25-800B-JSM	RD-91	BTA25-800B	-45 to 150°C	3	T&R,25	Rohs

RD91 Package dimensions



REF.	DIMENSIONS			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A		40.00		1.575
A1	29.90	30.30	1.177	1.193
A2		22.00		0.867
B		27.00		1.063
B1	13.50	16.50	0.531	0.650
B2		24.00		0.945
C		14.00		0.551
C1		3.50		0.138
E3	0.70	0.90	0.027	0.035
F	4.00	4.50	0.157	0.177
I	11.20	13.60	0.441	0.535
L1	3.10	3.50	0.122	0.138
L2	1.70	1.90	0.067	0.075
N1	33°	43°	33°	43°
N2	28°	38°	28°	38°

Revision History

Rev.	Change	Date
V1.0	Initial version	6/12/2021

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