

isc Thyristors

INCHANGE Semiconductor

DPAK

BT137S-800E

Δ.

7(3)

T1(1)

DESCRIPTION

- With TO-252(DPAK) packaging
- Operating in 4 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- •
- •

Α

Phase control Static switching on inductive or resistive load							
ABSOLU	TE MAXIMUM RATINGS(Ta=25℃)						
SYMBOL	PARAMETER	MAX	UNIT				
V _{DRM}	Repetitive peak off-state voltage	800	V				
V_{RRM}	Repetitive peak reverse voltage	800	V				
I _{T(RSM)}	Average on-state current	8	Α				
I _{TSM}	Surge non-repetitive on-state current50HZ60HZ		А				
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)	0.5	W				
Tj	Operating junction temperature	-40~125	°C				
T _{stg}	Storage temperature	-40~150	°C				

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	T: 405°0			0.5	mA
I _{DRM}	Repetitive peak off-state current	$V_D = V_{DRM}$ Rated; $Tj = 125^{\circ}C$		C			
V _{TM}	On-state voltage	I _T =10A				1.65	V
Igt	Gate-trigger current			Ι		10	
				II		10]
		V _D =12V;I _T =0.1A;		III		10 mA	
				IV		20]
V _{GT}	Gate-trigger voltage	V _D =12V;I _T =0.1A;				1.5	V
Rth (j-mb)	Junction to mounting base	Half cycle				2.4	°C/W

isc website: www.iscsemi.com

isc & iscsemi is registered trademark



BT137S-800E



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.