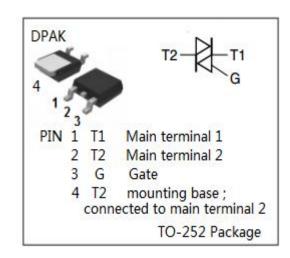


isc Triacs BT136S-600

DESCRIPTION

- · High blocking voltage capability
- · Surface-mountable package
- Low holding current for low current loads and lowest EMI at commutation.
- · Triggering in all four quadrants
- · Very sensitive gate
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



FEATURES

- General purpose motor control
- General purpose switching

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave;Tmb≤107°C)	4	А
I _{TSM}	Non-repetitive peak on-state current(Tj=25℃;Tp=20ms)		А
	Non-repetitive peak on-state current(Tj=25℃;Tp=16.7m	ns) 27	А
l ² t	I ² t for fusing tp=10ms;sine-wave pulse	3.1	A ² S
dl⊤/dt	Rate of rise of on-state current I - II - III	50	A/us
	I_T =6A, I_G =0.2A, dI_G / dt =0.2A/us IV	10	A/us
I _{GM}	Peak gate current	2	Α
V_{GM}	Peak gate voltage	5	V
P _{GM}	Peak gate power dissipation	5	W
P _{G(AV)}	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	\mathbb{C}



isc Triacs BT136S-600

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MIN	MAX	UNIT
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , Tj=125°C		0.01 0.5	mA
І _{СТ}	Gate trigger current III IV	I	- V _D =12V; I _T = 0.1A, R _L = 30 Ω		5	
		II			5	A
		III			5	mA
		IV			10	
V _{TM}	On-state voltage	0	I _T = 5A		1.7	V
I _H	Holding current	0	I _{GT} = 0.1A, V _D = 12V		12	mA
V _{GT}	Gate trigger voltage		V _D =12V; I _T = 0.1A		1.5	V



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.

isc website: www.iscsemi.com