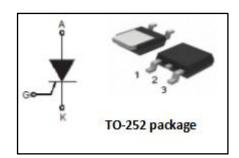


isc Thyristors

BT150SK-600R

APPLICATIONS

- It is suitable to fit all modes of control found in applications such as over-voltage crowbar protection, motor control circuits in power tools and kitchen aids, in-rush current limiting circuits, capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
I _{T(AV)}	Average on-stage current	2.5	Α
I _{T(RMS)}	RMS on-state current	4	Α
I _{TSM}	Surge non-repetitive on-state current	35	Α
P _{G(AV)}	Average gate power dissipation over any 20 ms period	0.5	W
Tj	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}\mathbb{C}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	Tj=25℃		5	μ A
IRRM	Repetitive peak reverse current	VRM-VRRM	T _j =125℃		0.5	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =25℃		5	μ А
			T _j =125℃		0.5	mA
V _{TM}	On-state voltage	I _T = 5A			1.8	V
I _{GT}	Gate-trigger current	$V_D = 12 \text{ V}; I_T = 0.1$	A		200	μ Α
V_{GT}	Gate-trigger voltage	$V_D = 12 \text{ V}; I_T = 0.1$	A		1	V
R _{th(j-c)}	Thermal resistance	Junction to case			6.5	°C/W

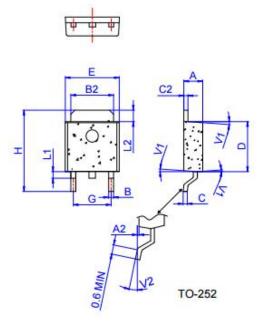
K: VGT (MAX):1V



isc Thyristors

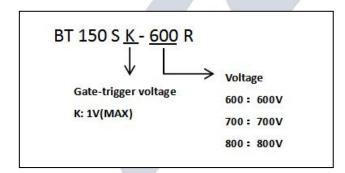
BT150SK-600R

PACKAGE DIMENSIONAL DRAWING



	Dimensions						
Ref.	Millimeters		Inches				
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	2.20		2.40	0.086		0.095	
A2	0.03		0.23	0.001		0.009	
В	0.55		0.65	0.022		0.026	
B2	5.10		5.40	0.200		0.213	
С	0.45		0.62	0.018		0.024	
C2	0.48		0.62	0.019		0.024	
D	6.00		6.20	0.236		0.244	
E	6.40		6.70	0.252		0.264	
G	4.40		4.70	0.173		0.185	
Н	9.35		10.6	0.368		0.417	
L1	1.30		1.70	0.051		0.067	
L2	1.37		1.50	0.054		0.059	
V1		4°			4°		
V2	0°		8°	0°		8°	

MARKING CODE



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.