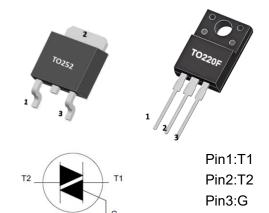


GENERAL DESCRIPTION

Passivated, sensitive gate triacs in a plastic envelope, suitable for surface mounting, intended for use in general purpose bidirectional switching and phase control applications, where high sensitivity is required in all four quadrants.



MARKING



WPM: LOGO

BT136=Device Code

800E:VDRM/VRRM=800V

ABSOLUTE MAXIMUM RATINGS (T_C=25°C, unless otherwise specified)

SYMBOL	PARAMETER	TEST CONDITION	VALUE	UNIT	
VDRM	Panatitiva Paak off state valtage	BT136-600E	/T:−25°C\	600	V
VDRIVI	Repetitive Peak off-state voltage	BT136-800E	(Tj=25°C)	800	
IT(RMS)	RMS forword current	4	Α		
ITSM	Non repetitive peak on state curre	t=20ms	25	Α	
115101	Non-repetitive peak on-state curre	t=16.7ms	27		
l ² t	I ² t for fusing	t=10ms	3.1	A^2S	
VGм	Peak gate voltage	5	V		
IGM	Peak gate current	2	Α		
PGM	Peak gate Power	5	W		
PG(AV)	Average gate Power	0.5	W		
Tj	Junction Temperature	125	$^{\circ}$		
Tstg	Storage Temperature Range	-40 to +150	$^{\circ}$		

Notes: 1.Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2.Although not recommended, off-state voltages up to 800V may be applied without damage, but the traic may switch to the on-state. The rate of rise of current should not exceed 3A/µs.



THERMAL DATA

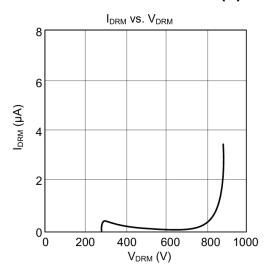
PARAI	SYMBOL	RATINGS	UNIT		
Junction to Ambient	Pcb Mounted	TO-220F	θЈА	60	K/W
Junction to Ambient	PCD Mounted	TO-252	θJΑ	75	K/W
Junction to Mounting Book	Full Cycle		ΔΙΡ	3.0	K/W
Junction to Mounting Base	Half Cycle		θЈВ	3.7	K/W

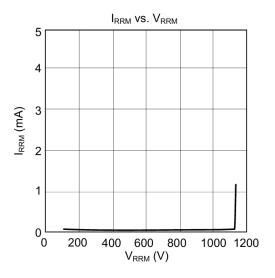
ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise specified)

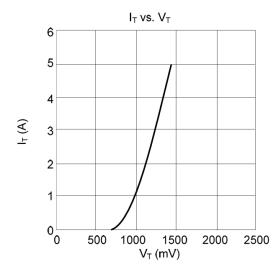
PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT		
STATIC									
		VD=12V;	T2+, G+		2.5	10			
Cata triuman august	lo .		T2+, G-		4	10	mA		
Gate trigger current	IGT	I _T =0.1A	T2-, G-		5	10			
			T2-, G+		11	25			
		VD=12V; I _{GT} =0.1A	T2+, G+		3	15			
	IL		T2+, G-		10	20			
Gate trigger voltage			T2-, G-		2.5	15	mA		
			T2-, G+		4	20			
Holding current	ΙH	V _D =12V,I _{GT} =0.1A			2.2	15	mA		
On-State Voltage	VT	I _T =5A			1.4	1.7	V		
Cata Triagar Valtaga	VGT	V _D =12V,I _T =0.1A			0.7	1.5	V		
Gate Trigger Voltage		V _D =400V,I _T =	0.25	0.4		V			
Off-state Leakage Current	ID	VD=VDRM(max) ,Tj=125℃			0.1	0.5	mA		
DYNAMIC				•		,	•		
Critical Rate of Rise of off-state Voltage	dV _D /dt	V_{DM} =67% $V_{DRM(max)}$, T_j =125°			50		V/µs		
Official Nate of Nise of off-state voltage		Gate open circuit			30		V/μS		
Gate Controlled Turn-on Time	t _{gt}	ITM=6A,VD=VDRM(max)			2		μs		
		IG=0.1A dlg/dt=5A/μs			_		_ F-		

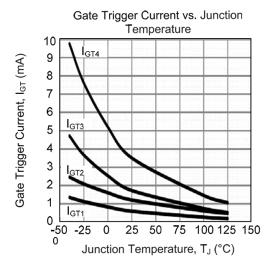


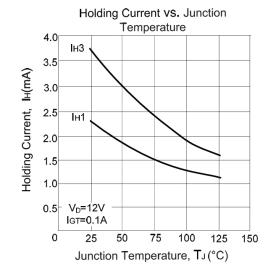
TYPICAL CHARACTERISTICS (1)

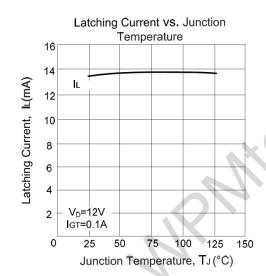






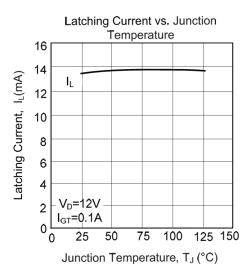


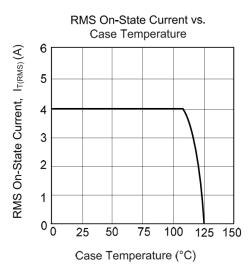


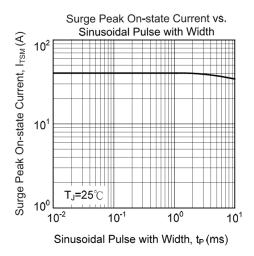


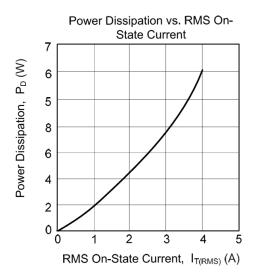


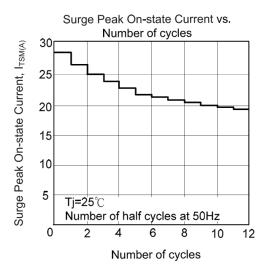
TYPICAL CHARACTERISTICS (Con.t)





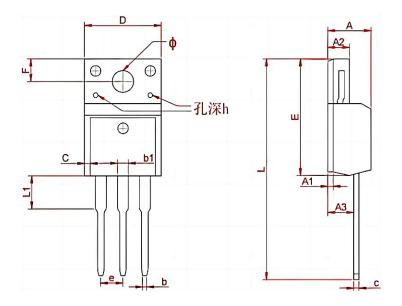






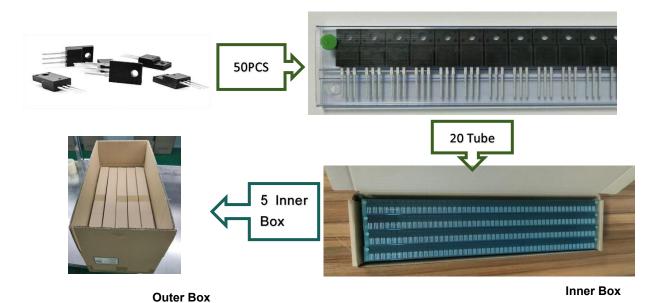


TO - 220F PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters				
Symbol	Min	Max			
Α	4.3	4.75			
A1	0.7 REF				
A2	2.3	2.85			
A3	2.5	2.9			
b 0.38		0.42			
b1	1.22	1.28			
С	1.08	1.2			
С	0.48	0.52			
D	10.15	10.45			
E	15.7	15.95			
е	2.574 TYP				
F	3.470 REF				
h 0		0.8			
L	28.78	28.9			
L1	2.99	3.1			

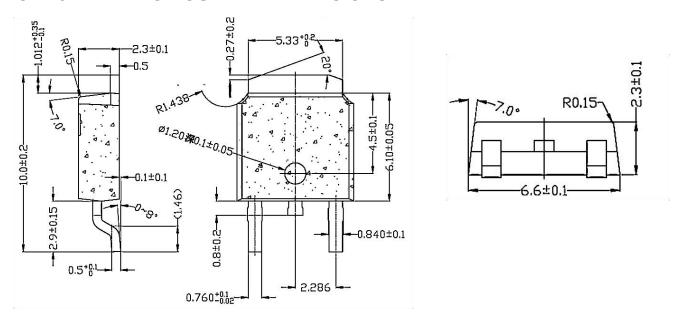
TO - 220F PACKING INFORMATION



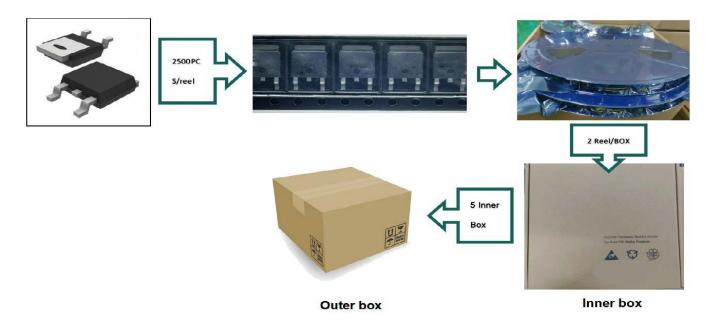
Package	Tube	Per	Tube	Inner box	PCS/	Outer box	PCS/
version	dimensions	Tube	per box	dimensions	Inner	dimensions	Outer
	LxW×H	(pcs)		LxW×H	box	L×W×H(mm)	box
	(mm)			(mm)		. *	
TO-220F	530*32*7	50	20	580*155*50	1000	602*277*188	5000



TO - 252 PACKAGE OUTLINE DIMENSIONS



TO - 252 PACKING INFORMATION



Package	Ree1	Per Reel	Ree1s	Inner box	Outer box	Outer box
version	dimensions ф×н (mm)	(pcs)	per box	dimensions L×W×H(mm)	(pcs)	dimensions L×W×H (mm)
T0-252	ф 330*20	2500	2	360*340*50	25000	375*375*280

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