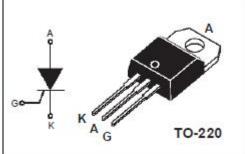


BT151-800R

APPLICATIONS

- It is suitable to fit all modes of control found in applications such as overvoltage 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(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(AV)}	Average on-stage current	7.5	А				
I _{T(RMS)}	RMS on-state current	12	А				
I _{TSM}	Surge non-repetitive on-state current T _P =10ms	100	А				
P _{G(AV)}	Average gate power dissipation over any 20 ms period	0.5	W				
Tj	Operating junction temperature	110	°C				
T _{stg}	Storage temperature	-40~150	°C				

AE

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} ,R _{GK} = 220 Ω ,	T j =25 ℃		5	μA
			Tj =125 ℃		0.5	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , ,R _{GK} = 220 Ω	Tj =25 ℃		5	μA
			Tj =125 ℃		0.5	mA
V _{TM}	On-state voltage	I _{TM} = 23A			1.75	V
I _{GT}	Gate-trigger current	V _D = 12 V; I _T = 0.1 A		15	mA	
V _{GT}	Gate-trigger voltage	V _D = 12 V; I _T = 0.1 A			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.3	°C/W

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