

isc Thyristors

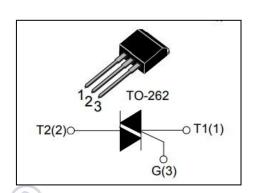
BTA312G-600CT

DESCRIPTION

- 3Q technology for improved noise immunity
- · High operating junction temperature
- High voltage capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Applications subject to high temperature
- Electronic thermostats (heating and cooling)
- High power motor controls e.g. washing machines and vacuum cleaners



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RMS)}	RMS on-state current	12	Α
I _{TSM}	Surge non-repetitive on-state current ,tp=20ms	100	А
Tj	Operating junction temperature	-40~150	$^{\circ}$ C
T _{stg}	Storage temperature	-40~150	$^{\circ}$ C

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	d: - 450°C			2	mA
I _{DRM}	Repetitive peak off-state current	$V_D = V_{DRM}$ Rated; $T_j = 150$		C			
V_{TM}	On-state voltage	I _T =15A				1.6	V
I _{GT}	Gate-trigger current	V _D =12V;I _T =0.1A;		I		35	mA
				II		35	
				III		35	
V_{GT}	Gate-trigger voltage	$V_D = 12V; I_T = 0.1A;$				1.5	V
I _H	Holding current	V _D =12V;I _T =0.1A;				35	mA

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