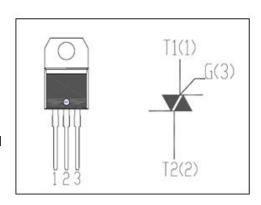


isc Triacs MAC210A8

FEATURES

- · With TO-220AB insulated package.
- Suitable for general purpose AC switching which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers 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	600	V
V _{RRM}	Repetitive peak off-state voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave)	10	Α
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	100	Α
T _j	Operating junction temperature	-40~125	$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-40~150	$^{\circ}\mathbb{C}$
R _{th(j-c)}	Thermal resistance, junction to case	2	°C/W
R _{th(j-a)}	Thermal resistance, junction to ambient	62.5	°C/W

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I _{RRM}	Repetitive peak revers	e current	V _R =V _{RRM} , V _R =V _{RRM} , Tj=125℃	0.01 2	mA
I _{DRM}	Repetitive peak off-sta	te current	V _D =V _{DRM} , V _D =V _{DRM} , Tj=125℃	0.01 2	mA
I _{GT}		I	V =12V D = 100 O	50	m A
	Gate trigger current III IV	II		50	
		V _D =12V; R _L = 100 Ω	50	- mA	
		IV		75	
I _H	Holding current		V _D =12V, I _{GT} = 0.2A, Gate Open	50	mA
V _{GT}	Gate trigger voltage all quadrant		V _D =12V; R _L = 100 Ω	2	V
V _{TM}	On-state voltage		I _T = 14A	1.65	V

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