

isc Triacs

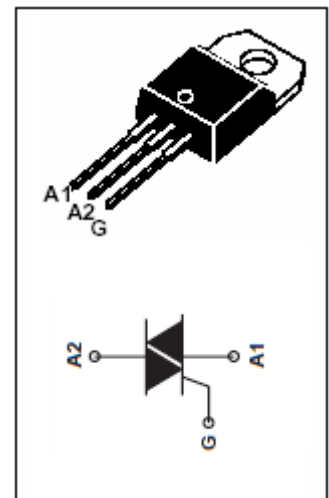
ISC5645

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.

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 (full sine wave) T _j =105°C	10	A
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	100	A
T _j	Operating junction temperature	-40~150	°C
T _{stg}	Storage temperature	-40~100	°C
R _{th(j-c)}	Thermal resistance, junction to case	2.5	°C/W

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT	
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} ,	2	mA	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} ,	2	mA	
I _{GT}	Gate trigger current	V _D =12V; R _L = 30Ω	I	50	mA
			II	80	
			III	80	
			IV	50	
I _H	Holding current	I _{GT} = 0.1A, Gate Open	50	mA	
V _{GT}	Gate trigger voltage all quadrant	V _D =12V; R _L = 30Ω	2.5	V	
V _{TM}	On-state voltage	I _T = 14A; t _p = 380μ s	2.2	V	