8.0A 4Quadrants TRIACs

Product Summary

Symbol	Value	Unit
$I_{T(RMS)}$	8.0	A
V_{DRM} V_{RRM}	600 800	V
V_{TM}	1.55	V

Features

With high ability to withstand the shock loading of large current,With high commutation performances, 4 quadrants products especially recommended for use on inductive load.

Application

Washing machine, vacuums, massager,

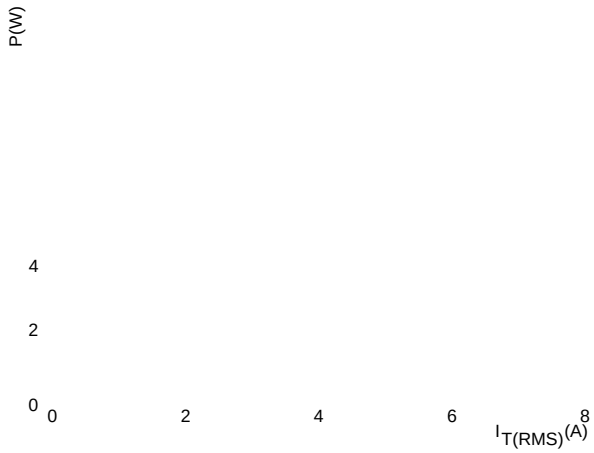
Electrical characteristics (T_A=25°C, unless otherwise noted)

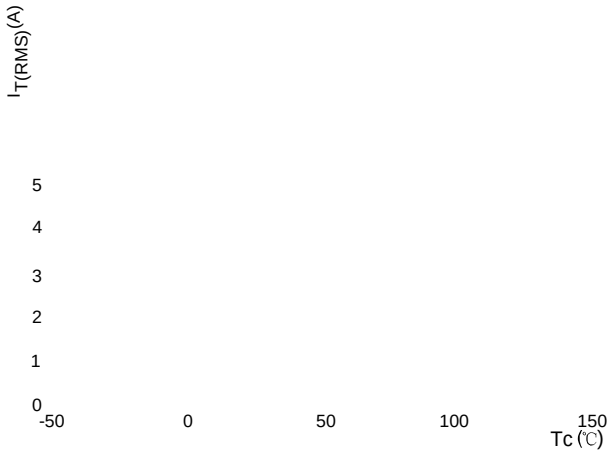
Parameter	Symbol	Test Condition		Value			Unit
				D	E	F	
Gate trigger current	I_{GT}	V_D=12V I_T=0.1A Tj=25°C	I-II-III	≤5	≤10	≤25	mA
			IV	≤10	≤25	≤70	
Gate trigger voltage	V_{GT}		I-II-III-IV	≤1.3			V
Gate non-trigger voltage	V_{GD}	V_D =V_{DRM} Tj=125°C		≥0.2			V
latching current	I_L	V_D =12V I_{GT}=0.1A Tj=25°C	I-III-IV	≤10	≤20	≤20	mA
			I-III-IV	≤15	≤25	≤30	
Holding current	I_H		II	≤20	≤35	≤45	mA
Critical-rate of rise of commutation voltage	dV_D/dt	V_D=67% V_{DRM} Gate Open Tj=125°C		≥10	≥20	≥50	V/us
STATIC CHARACTERISTICS							
Forward "on" voltage	V_{TM}	I_{TM} =10A tp=380us		≤1.55			V
Repetitive Peak Off-State Current	I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	Tj=25°C	≤10	≤10	≤10	UA
Repetitive Peak Reverse Current	I_{RRM}		Tj=125°C	≤1	≤1	≤1	mA
	THERMAL RESISTANCES						
Thermal resistance	**Rth(j-c)**	Junction to case(AC)		TYP.	1.6		°C/W
	Rth(j-a)	Junction to ambient		TYP.	60		°C/W

Ordering Information

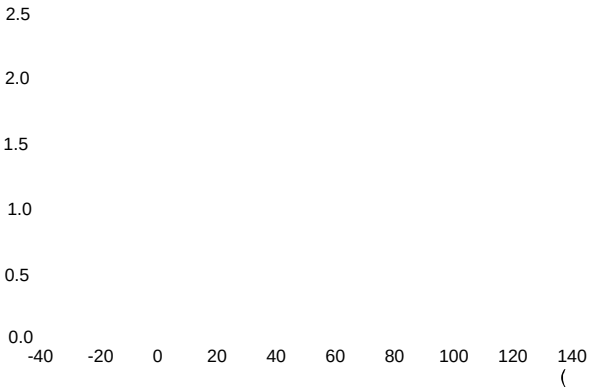
D:I_{GT1-3} ≤5mA ,I_{GT4} ≤10mA
E:I_{GT1-3} ≤10mA, I_{GT4} ≤25mA
F:I_{GT1-3} ≤25mA ,I_{GT4} ≤70mA

Typical Characteristics









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