T1235H-8D 12A TRIAC

Rev.A.1.0

DESCRIPTION:

The T1235H-8D triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Compared to traditional triacs, T1235H-8D provides a very high switching capability up to junction temperatures of 150°C. Package TO-262 is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	-

Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	4.5	kV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

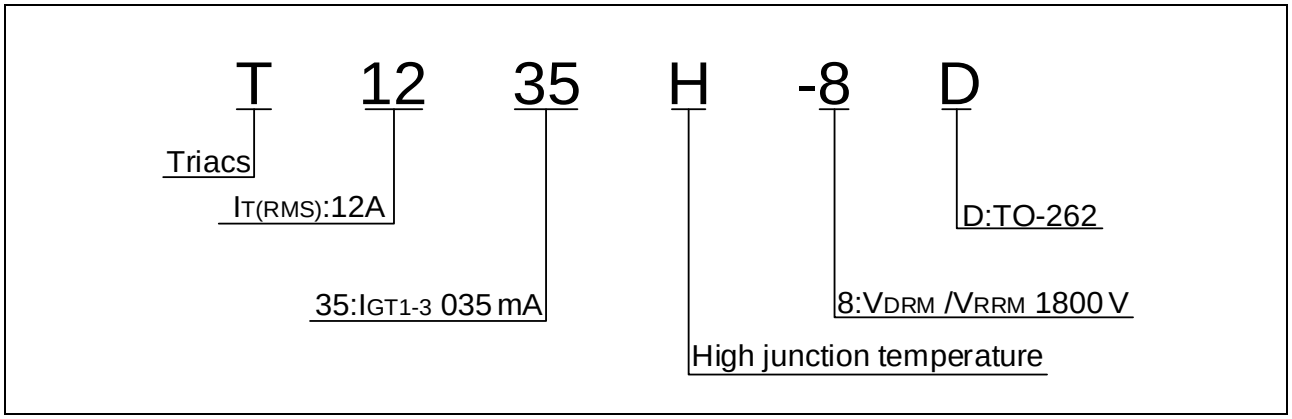
Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33	- -	MAX.	35	mA
V_{GT}		- -	MAX1	V	
V_{GD}	V_D =V_{DRM} T_j =150 R_L =3.3k	- -	MIN.	0.2V	
I_L	I_G =1.2I_{GT}	-	MAX.	30 mA	
				60	
I_H	I_T =500mA		MAX30	mA	
dV/dt	V_D=540V Gate Open T_j =150		MIN500	V s	
(dI/dt)c	G 9 G W F j=9150V 7		MIN.5	A/ms	
t_{on}	$_G$=40mA I_A=200mA I_R=20mA T_j=25		TYP. 3	s	
t_{off}				60	

Symbol	Parameter		Value(MAX .)	Unit
V_{TM}	I_{TM} =17A t_p=380 s	T_j=25	1.4	V
V_{TO}	Threshold voltage	T_j=150	0.75	V
R_D	Dynamic resistance	T_j=150	37	P
I_{DRM}	V_D =V_{DRM} V_R =V_{RRM}	T_j=25	5	A
I_{RRM}		T_j=150	2	mA

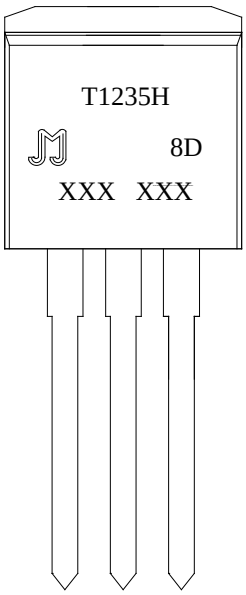
THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	1.3	/W
$R_{th(j-a)}$	junction to ambient (AC)	45	/W

ORDERING INFORMATION



MARKING



ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
T1235H-8D	800	35	TO-262	50	Tube

Document Revision History

Date	Revision	Changes
Nov.28, 2025		

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