



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
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

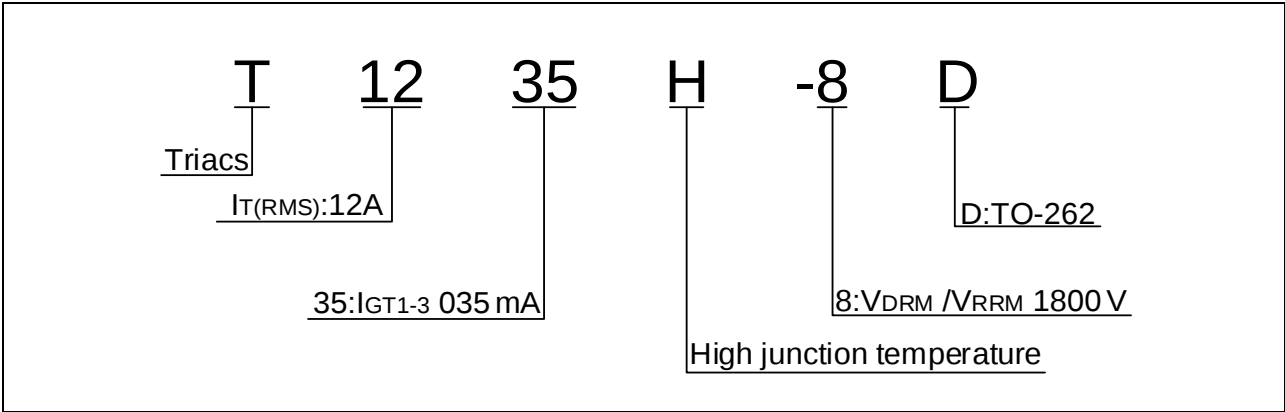
Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33$	- -	MAX.	35	mA
V_{GT}		- -	MAX.1	V	
V_{GD}	$V_D=V_{DRM}$ $T_j=150$ $R_L=3.3k$	- -	MIN.	0.2V	
I_L	$I_G=1.2I_{GT}$	-	MAX. ³⁰	mA	
				60	
I_H	$I_T=500mA$		MAX.30	mA	
dV/dt	$V_D=540V$ Gate Open $T_j=150$		MIN.500	V/s	
$(dI/dt)_c$	G 9 G W F $j=150V$ 7		MIN.5	A/ms	
t_{onj}	$G=40mA$ $I_A=200mA$ $I_R=20mA$ $T_j=25$		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

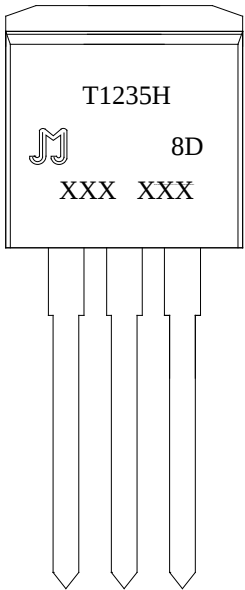
THERMAL RESISTANCES

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
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Nov.28, 2025

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