



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)

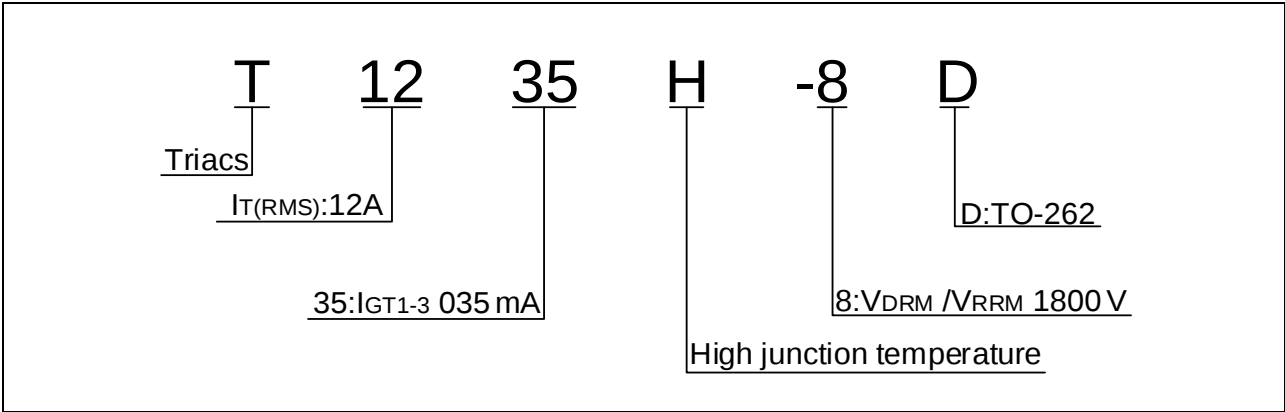
Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33	- -	MAX.	35	mA
V _{GT}		- -	MAX1	V	
V _{GD}	V _D =V _{DRM} T _j =150 R _L =3.3k	- -	MIN.	0.2V	
I _L	I _G =1.2I _{GT}	-	MAX. ³⁰	mA	
				60	
I _H	I _T =500mA		MAX30	mA	
dV/dt	V _D =540V Gate Open T _j =150		MIN500	V s	
(dI/dt) _c	G 9 G W F j 150V 7		MIN.5	A/ms	
t _{onj}	G=40mA I _A =200mA I _R =20mA		TYP. ³	s	
t _{off}	T _j =25			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

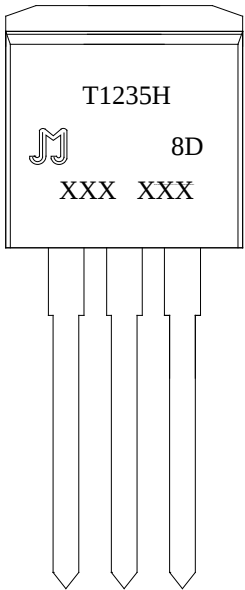
THERMAL RESISTANCES

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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