

isc Triacs

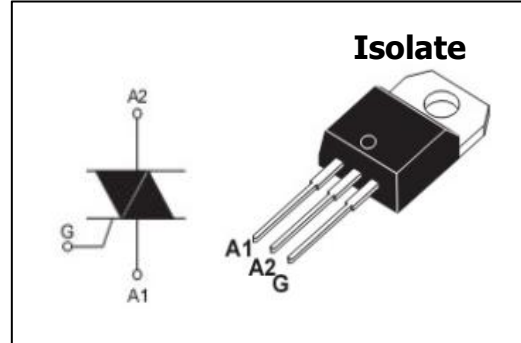
T1513NJ

FEATURES

- Isolated Package

APPLICATIONS

- Motor Controls
- SMPS
- Heater Controls



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER		MIN	UNIT
V _{DRM}	Repetitive Peak Off-state Voltage		800	V
V _{RRM}	Repetitive Peak Off-state Voltage		800	V
I _{T(RMS)}	Non Repetitive Surge Peak On-state Current (full sine wave, T _C = 85°C)		15	A
I _{TSM}	Non-repetitive Peak On-state Current, Half Cycle	f= 60Hz	230	A
		f= 50Hz	210	A
I ² t	I ² t Value for Fusing, t= 10ms		220	A ² S
P _{G(AV)}	Average Gate Power Dissipation		1.0	W
T _J	Operating Junction Temperature		-40~125	°C
T _{stg}	Storage Temperature		-40~125	°C

THERMAL CHARACTERISTICS

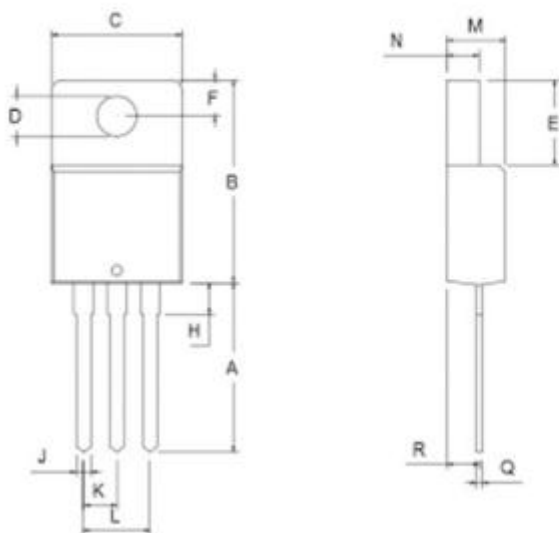
SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		$V_D=V_{DRM}$	--	10	μA
I_{DRM}	Repetitive peak off-state current		$V_D=V_{DRM}$	--	10	μA
I_H	Holding Current		$R_{GK}=1\text{k}\Omega$	--	75	mA
I_{GT}	Gate trigger current	I-II-III	$V_D=12\text{V}$	--	50	mA
		V		--	75	mA
V_{GT}	Gate trigger voltage all quadrant	I-II-III-IV	$V_D=12\text{V}$	--	2.5	V
V_{TM}	On-state voltage		$I_T=22.5\text{A}$	--	1.22	V

PACKAGE OUTLINE

Dimensions in mm



Dimension	Millimeter		Inches	
	Min	Max	Min	Max
A	12.70	13.90	0.500	0.547
B	15.10	15.90	0.594	0.626
C	9.80	10.40	0.386	0.409
D	3.44	3.98	0.135	0.157
E	6.50	6.70	0.256	0.264
F	2.50	3.10	0.098	0.122
H	3.09	4.05	0.122	0.159
J	0.54	1.01	0.021	0.040
K	2.44	2.64	0.096	0.104
L	4.98	5.18	0.196	0.204
M	4.40	4.80	0.173	0.189
N	1.25	1.35	0.049	0.053
R	2.41	2.71	0.095	0.107
Q	0.45	0.70	0.018	0.028

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