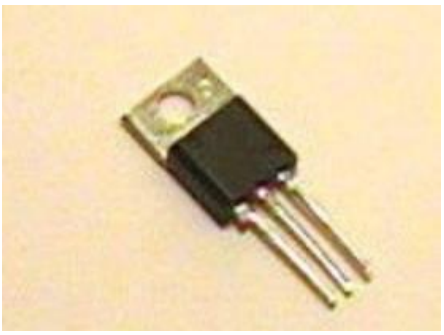
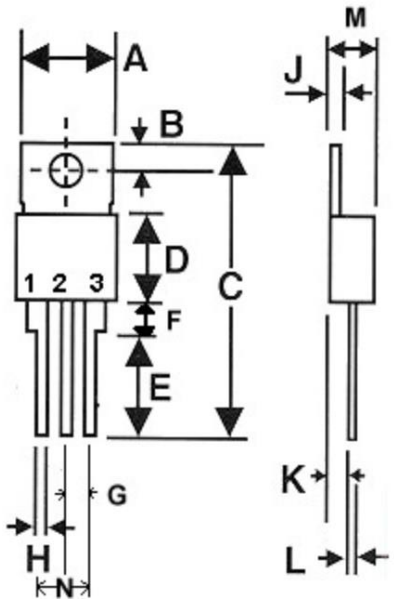
IT-815

TO-220 Isolated TRIAC





1. MT 1
2. MT 2
3. GATE

SYM.	INCHES	
A	0.410	0.430
B	0.097	0.103
C	1.160	1.175
D	0.340	0.350
E	0.375	0.475
F	0.085	0.200
G	0.090	0.160
H	0.030	0.035
J	0.045	0.055
K	0.070	0.080
L	0.019	0.025
M	0.175	0.195
N	0.190	0.210

Maximum Ratings	Symbol	Value	Unit
REPETITIVE PEAK OFF-STATE VOLTAGE (1)GATE OPEN, AND TJ=110°C/VDRM		800	Volt
RMS ON-STATE CURRENT AT TC = 80º C AND CONDUCTION, ANGLE OF 360º	IT(RMS)	15.0	Amp
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	150	Amp
PEAK GATE - TRIGGER CURRENT FOR 3µSEC. MAX.	IGTM	4	Amp
PEAK GATE-POWER DISSIPATION AT IGT≤IGTM	PGM	40	Watt
AVERAGE GATE - POWER DISSIPATION	PG(AV)	0.8	Watt
STORAGE TEMPERATURE RANGE	TSTG	-40 to +150	°C
OPERATING TEMPERATURE RANGE, TJ	TOPER	-40 to +110	°C
PEAK OFF - STATE CURRENT (1) GATE OPEN TC = 110° C VDRM = MAX. RATING	IDRM	0.5	MA Max.
MAXIMUM ON - STATE VOLTAGE, (1) AT TC = 25° C AND IT = RATED AMPS	VTM	2.2	Volt Max.
DC HOLDING CURRENT, (1) GATE OPEN AND TC = 25° C	IHO	50	MA Max.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, (1) FOR VD =VDRM GATE OPEN, TC = 110° C	Critical dv/dt	150	V/µSEC.
CRITICAL RATE-OF-RISE OF COMMUTATING VOLTAGE, (1) AT TC = 80° C, GATE ENENERGIZED, VD=VDRM IT=IT (RMS)	COMMUTATING dv/dt	4	V/µSEC.
DC GATE - TRIGGER CURRENT FOR VD = 12VDC. RL = 60 ohm AND AT TC = 25° C (T2 + GATE + T2 - GATE-) QUADS I & III (T2 + GATE - T2 - GATE +) QUADS II & IV	IGT	50 I, III 80 II, IV	MA Max.
DC GATE - TRIGGER VOLTAGE FOR VD = 12VDC. RL = 60 ohm AND AT TC = 25° C	VGT	2.5	Volt Max.
GATE CONTROLLED TURN-ON TIME FOR VD = VDRM IGT = 80MA TR = 0.1 µSEC. IT = 10A (PEAK) AND TC = 25° C	TGT	2.5	µSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	RθJ-C	2.5	°C/Watt Typ.

Tel. 1-973-377-9566, Fax. 1-973-377-3078
133 Kings Road,
Madison, New Jersey 07940
United States of America

© 2014 American Microsemiconductor, Inc.
Specifications are subject to change without notice.

www.americanmicrosemi.com

Aerospace Mgmt. Sys. Cert.
AS/EN/JISQ9100:2009 Rev. C
ISO9001:2008
Cert No. 45325