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15A BRIDGE RECTIFIERS

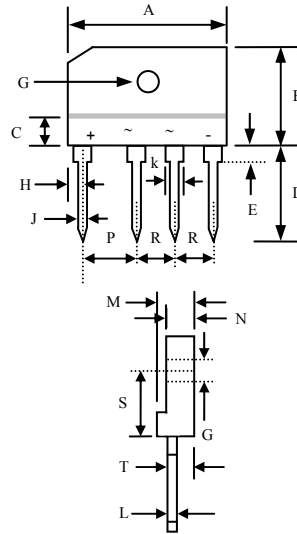
BJ15-005 THRU BJ15-10

FEATURES

- DIFFUSED JUNCTION
- LOW FORWARD VOLTAGE DROP
- HIGH CURRENT CAPABILITY
- HIGH SURGE CURRENT CAPABILITY
- IDEAL FOR PRINTED CIRCUIT BOARDS

MECHANICAL DATA

- CASE: MOLDED PLASTIC
- DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: LEADS SOLDERABLE PER MIL-STD-202, METHOD 208V
- POLARITY: AS MARKED ON BODY
- WEIGHT: 4.0 GRAMS
- MOUNTING POSITION: ANY
- MARKING: TYPE NUMBER



BJ - 15		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	-	5.0
D	17.0	18.0
E	3.8	4.2
G	3.10	3.65 Ø
H	2.3	2.7
J	0.9	1.1
K	1.8	2.2
L	0.6	0.8
M	4.4	5.3
N	3.4	4.35
P	9.8	10.2
R	7.3	7.7
S	10.8	12.2
T	2.5	3.4
All Dimensions In mm		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	BJ15-005	BJ15-01	BJ15-02	BJ15-04	BJ15-06	BJ15-08	BJ15-10	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	50	100	200	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	35	70	140	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	50	100	200	400	600	800	1000	V
AVERAGE RECTIFIED OUTPUT CURRENT @ $T_c = 100^\circ\text{C}$	I_o	15							A
NON-REPETITIVE PEAK FORWARD SURGE CURRENT 8.3MS SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD (JEDEC METHOD)	I_{FSM}	200							A
$I^2 t$ RATING FOR FUSING ($t < 8.35$ ms)	$I^2 t$	110							$A^2 S$
FORWARD VOLTAGE (PER DIODE) @ $I_F = 7.5A$	V_{FM}	1.0							V
PACK REVERSE CURRENT @ $T_a = 25^\circ\text{C}$	I_R	10							μA
AT RATED DC BLOCKING VOLTAGE @ $T_c = 100^\circ\text{C}$		500							
TYPICAL THERMAL RESISTANCE (PER LEG) (NOTE 1)	$R_{\theta JA}$	22							K/W
TYPICAL THERMAL RESISTANCE (PER LEG) (NOTE 2)	$R_{\theta JC}$	1.5							K/W
OPERATING AND STORAGE TEMPERATURE RANGE	T_j, T_{STG}	- 55 TO + 150							$^\circ\text{C}$

- NOTE: 1. THERMAL RESISTANCE JUNCTION TO AMBIENT MOUNTED ON PCB AT 9.5 mm LEAD LENGTH.
2. THERMAL RESISTANCE JUNCTION TO CASE MOUNTED ON 7.5 x 7.5 x 0.8cm THICK AL PLATE HEAT SINK.

RATINGS AND CHARACTERISTIC CURVES BJ15-005 THRU BJ15-10

FIG. 1 – FORWARD CURRENT DERATING CURVE

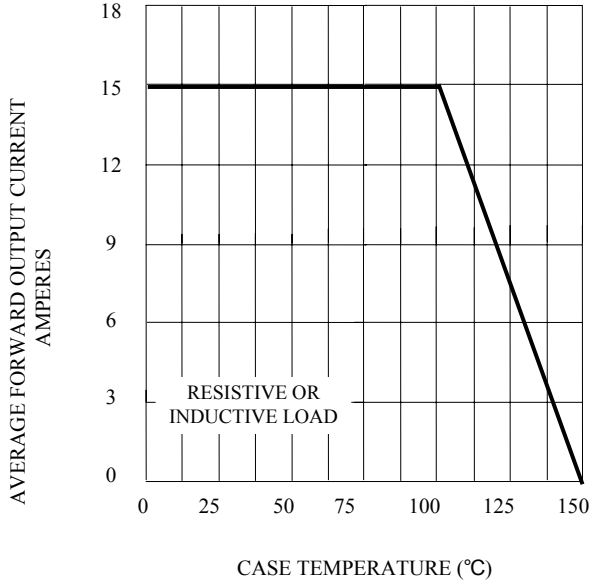


FIG. 2 – TYPICAL FWD CHARACTERISTICS, PER ELEMENT

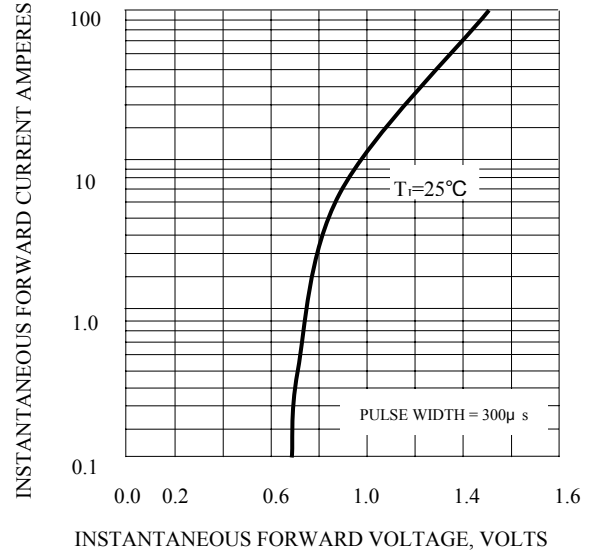


FIG. 3 - MAXIMUM NON - REPETITIVE SURGE CURRENT

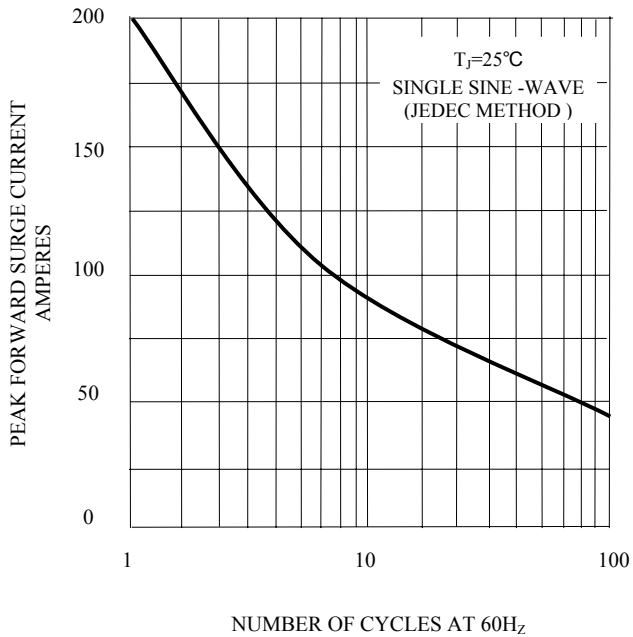


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

