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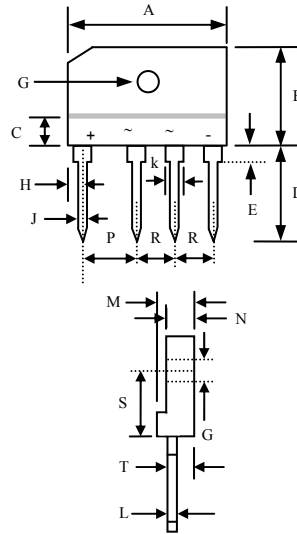
## 15A BRIDGE RECTIFIERS BJ15-005 THRU BJ15-10

### 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 ( $t < 8.35 \text{ ms}$ )	$I^2 t$	110							$\text{A}^2 \text{S}$
FORWARD VOLTAGE ( PER DIODE ) @ $I_F = 7.5\text{A}$	$V_{FM}$	1.0							V
PACK REVERSE CURRENT @ $T_a = 25^\circ\text{C}$	$I_R$	10							$\mu \text{A}$
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

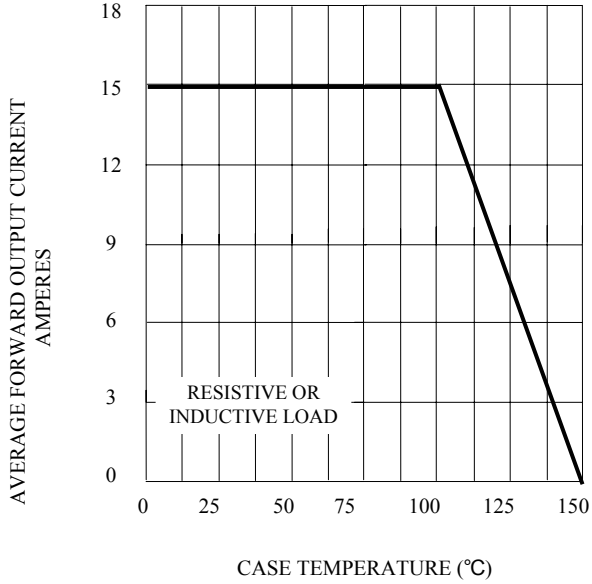


FIG. 2 – TYPICAL FWD CHARACTERISTICS, PER ELEMENT

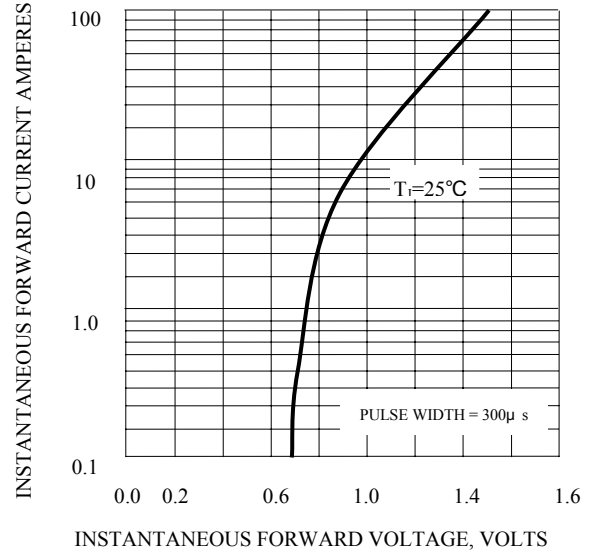


FIG. 3 - MAXIMUM NON - REPETITIVE SURGE CURRENT

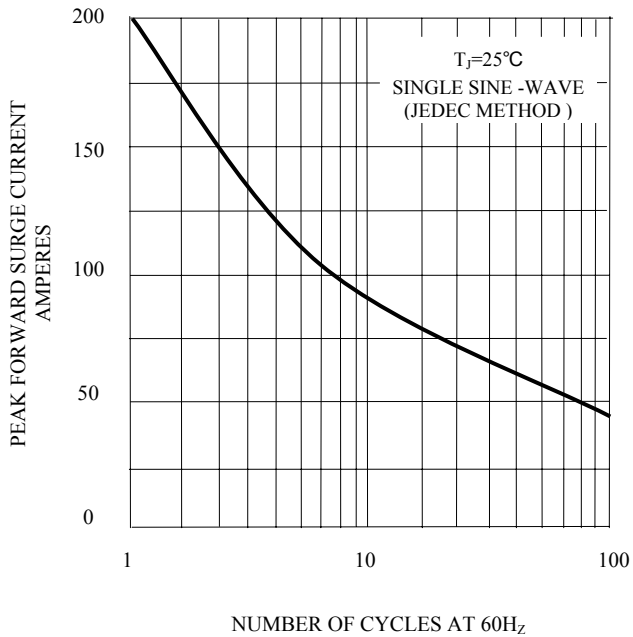


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

