



**BY228/13
THRU
BY228/15**

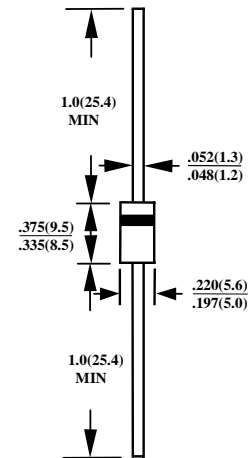
3A CLAMPER/DAMPER RECTIFIER

FEATURES

- DESIGNED FOR CLAMPING / DAMPING CIRCUIT OF HORIZONTAL DEFLECTION SYSTEM
- PLASTIC PACKAGE HAS UNDERWRITERS LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- VOID-FREE MOLDED PLASTIC
- HIGH TEMPERATURE SOLDERING GUARANTEED : 260°C/10 SECONDS/.375" (9.5mm) LEAD LENGTH/5 LBS. (2.3KG)

MECHANICAL DATA

- CASE : MOLDED CASE
- TERMINAL : AXIAL LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY : COLOR BAND DENOTES CATHODE
- MOUNTING POSITION : ANY
- WEIGHT : 1.2 GRAMS



CASE-DO201AD
DIMENSIONS IN INCHES AND (MILLIMETERS)

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 | BY228/13 | BY228/15 | UNITS |
|--|------------------|---------------|----------|-------|
| MAXIMUM RECURRENT PEAK REVERSE VOLTAGE | V _{RRM} | 1300 | 1500 | V |
| MAXIMUM RMS VOLTAGE | V _{RMS} | 910 | 1050 | V |
| MAXIMUM DC BLOCKING VOLTAGE | V _{DC} | 1300 | 1500 | V |
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT (SEE FIG.1) | I _O | 3.0 | | A |
| PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD | I _{FSM} | 100 | | A |
| TYPICAL JUNCTION CAPACITANCE (NOTE 1) | C _J | 40 | | PF |
| TYPICAL THERMAL RESISTANCE (NOTE 2) | R _{θja} | 20 | | °C/W |
| STORAGE TEMPERATURE RANGE | T _{STG} | - 55 TO + 150 | | °C |
| OPERATING TEMPERATURE RANGE | T _{OP} | -55 TO + 125 | | °C |

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

| CHARACTERISTICS | SYMBOL | BY228/13 | BY228/15 | UNITS |
|--|-----------------|----------|----------|-------|
| MAXIMUM FORWARD VOLTAGE AT I _O DC | V _F | 1.5@5A | | V |
| MAXIMUM REVERSE CURRENT AT 25°C | I _R | 5 | | μA |
| MAXIMUM REVERSE CURRENT AT100°C | I _R | 50 | | μA |
| MAXIMUM REVERSE RECOVERY TIME (NOTE 3) | T _{RR} | 20 | | μS |
| MAXIMUM FORWARD RECOVERY TIME (NOTE 4) | T _{FR} | 1.0 | | μS |

- NOTE :
1. MEASURED AT 1MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
 2. BOTH LEADS ATTACHED TO HEATSINK 63.5x63.5x1(mm) COPPER PLATE AT LEAD LENGTH 5mm
 3. TEST CONDITIONS: I_F= 1.0A, I_R= 50mA, di/dt=50 mA/uS
 4. TEST CONDITIONS: I_F= 5.0A, T_R=0.1uS

RATINGS ANSD CHARACTERISTIC CRVES BY228/13 THRU BY228/15

FIG. 1 - FORWARD CURRENT DERATING CURVE

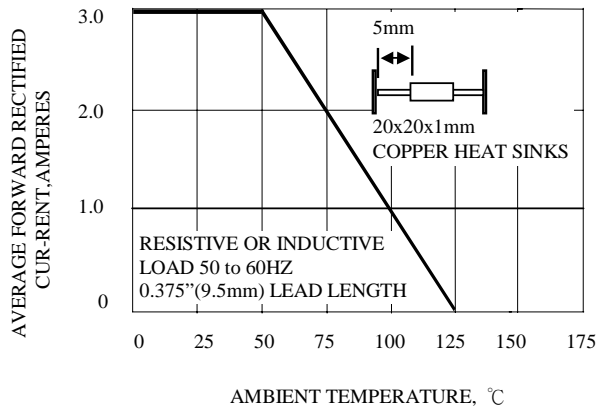


Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

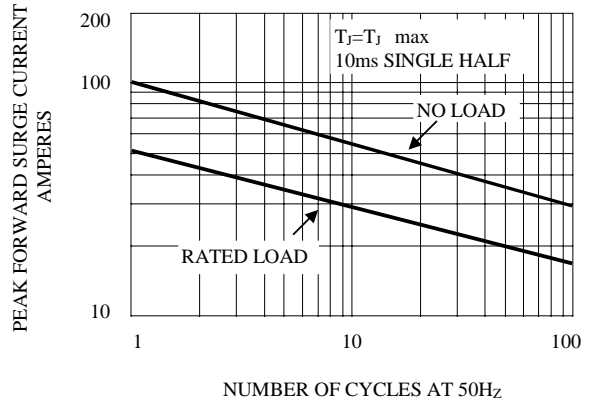


FIG. 3 - MAXIMUM PEAK REPETITIVE FORWARD SURGE CURRENT

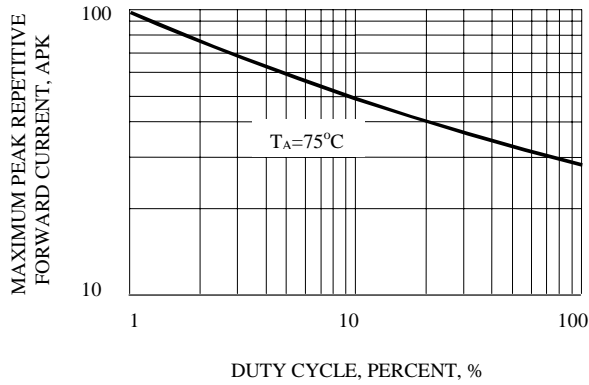


FIG. 4 -TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

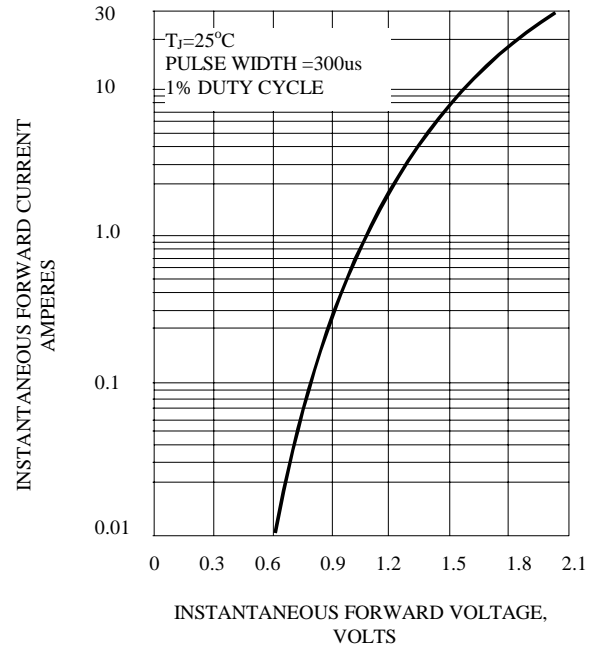


FIG. 5 -TYPICAL REVERSE CHARACTERISTICS

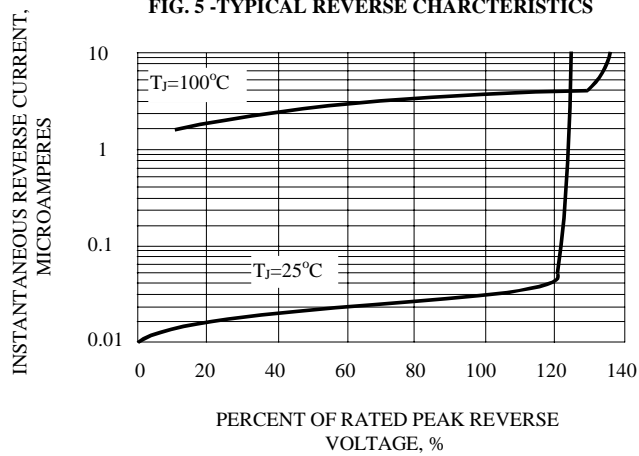


FIG. 6-TYPICAL JUNCTION CAPACITANCE

