



# KBPC/BR15/25/35/50 SERIES

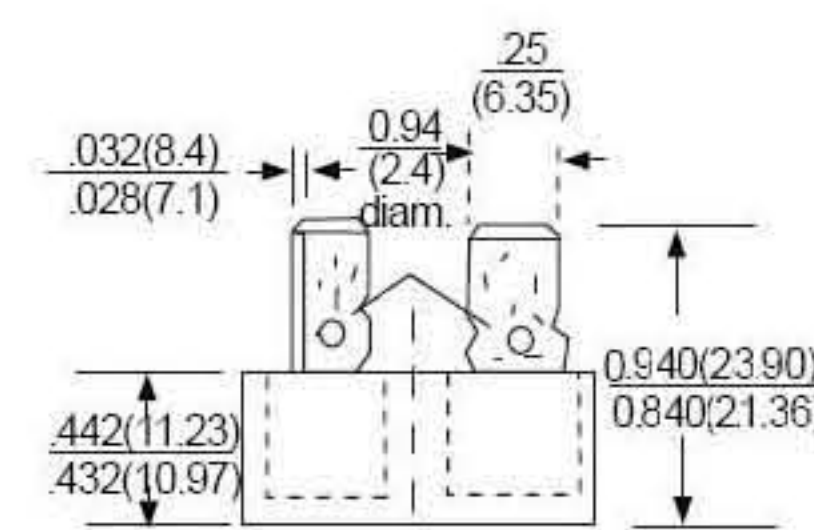
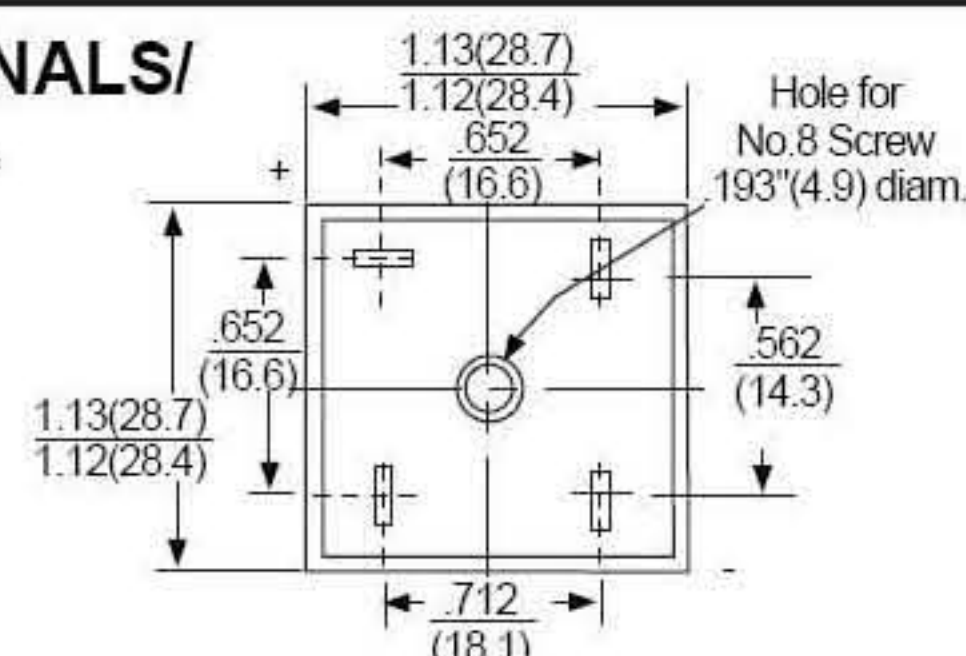
## SINGLE PHASE 15/25/35/50 AMPS. SILICON BRIDGE RECTIFIERS

Voltage Range  
50 to 1000 Volts  
Current  
15/25/35/50 Amperes

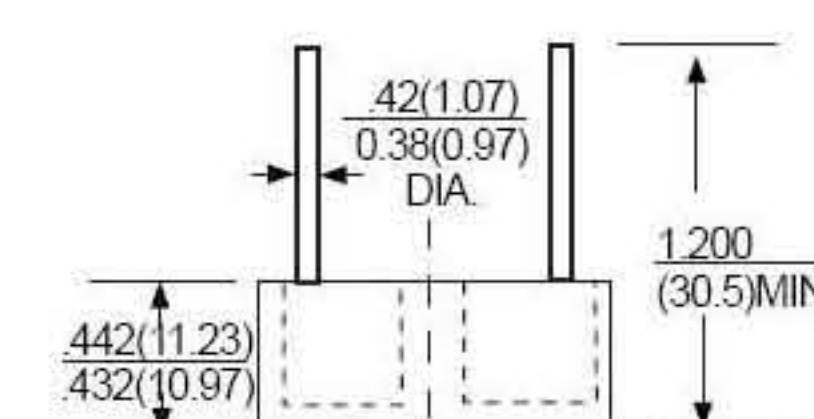
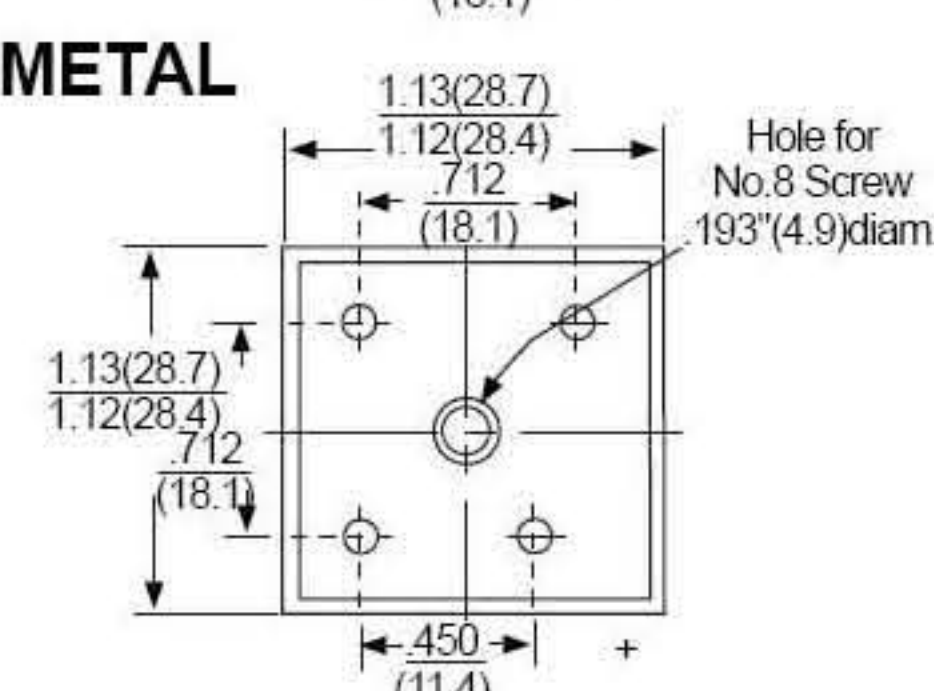
### FEATURES

- \*UL Recognized File # 230084
- \*Surge overload 200-400 Amperes peak
- \*Low forward voltage drop
- \*Mounting Position: Any
- \*Electrically isolated base-1800 Volts
- \*Solderable 0.25" FASTON terminals
- \*Materials used carries U/L recognition

#### TERMINALS/ METAL

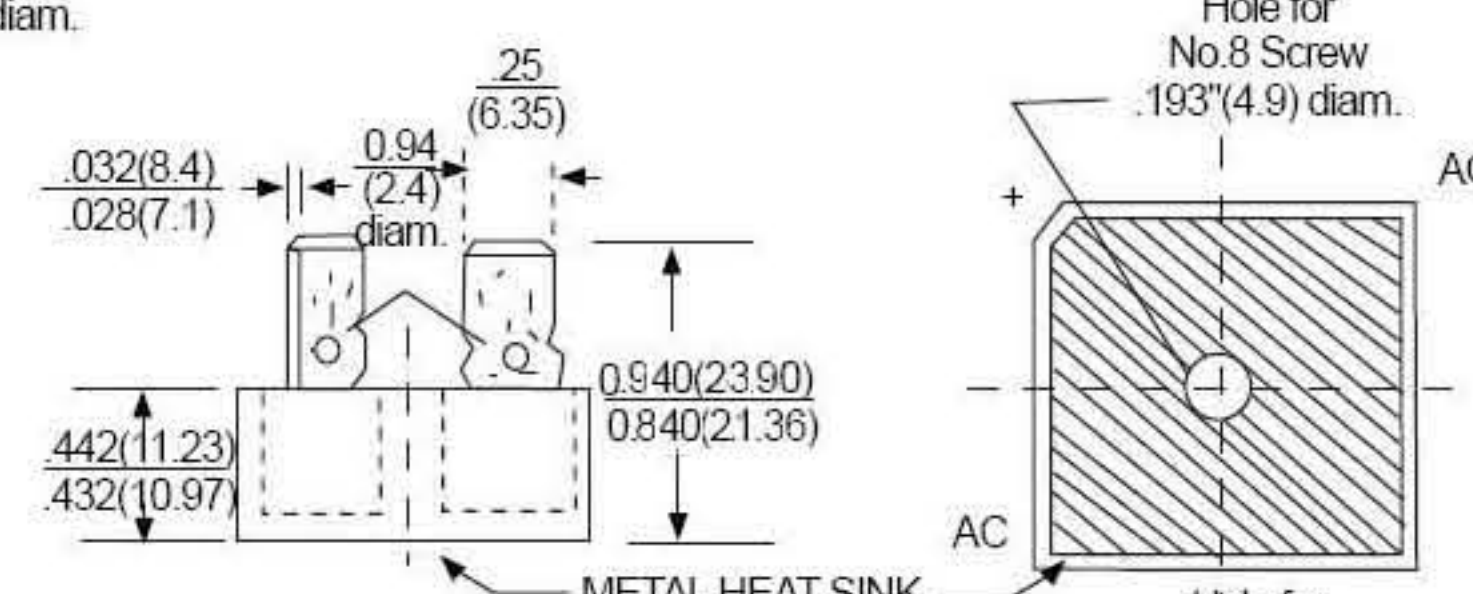
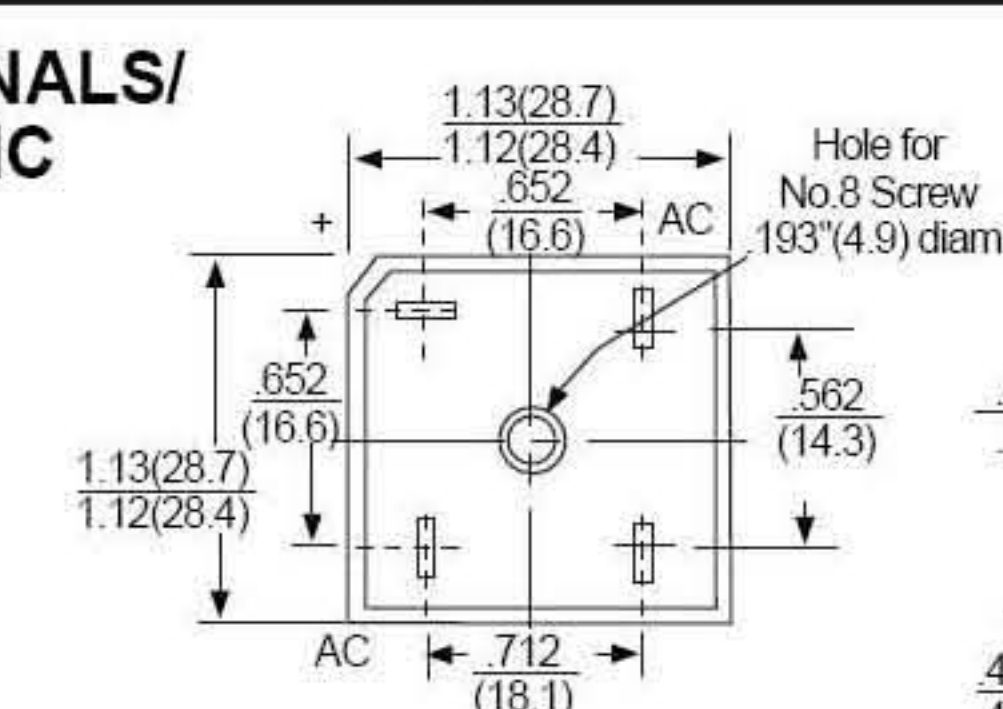


#### LEAD / METAL

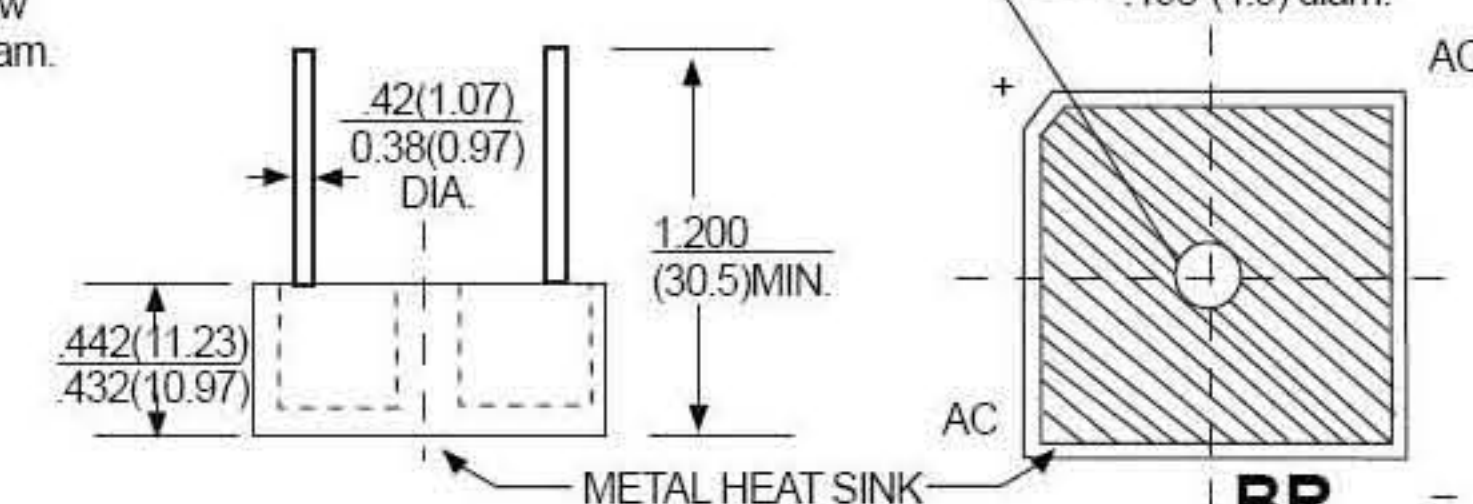
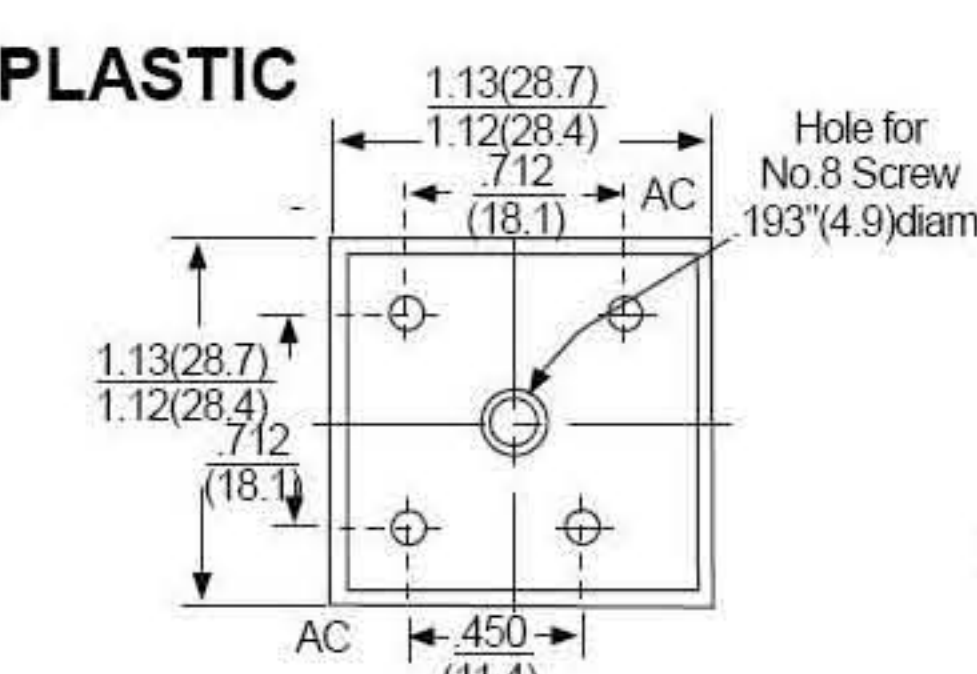


KBPC

#### TERMINALS/ PLASTIC



#### LEAD / PLASTIC



BR

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load 50Hz.  
For capacitive load current by 20%

| Type Number                                                                              |        | KBPC<br>BR       | KBPC<br>BR | KBPC<br>BR       | KBPC<br>BR | KBPC<br>BR       | KBPC<br>BR | KBPC<br>BR       | UNITS |    |
|------------------------------------------------------------------------------------------|--------|------------------|------------|------------------|------------|------------------|------------|------------------|-------|----|
|                                                                                          |        | 15005            | 1501       | 1502             | 1504       | 1506             | 1508       | 1510             |       |    |
|                                                                                          |        | 25005            | 2501       | 2502             | 2504       | 2506             | 2508       | 2510             |       |    |
|                                                                                          |        | 35005            | 3501       | 3502             | 3504       | 3506             | 3508       | 3510             |       |    |
|                                                                                          |        | 50005            | 5001       | 5002             | 5004       | 5006             | 5008       | 5010             |       |    |
| Maximum Repetitive Peak Reverse Voltage                                                  | VRRM   | 50               | 100        | 200              | 400        | 600              | 800        | 1000             | V     |    |
| Maximum RMS Bridge Input Voltage                                                         | VRMS   | 35               | 70         | 140              | 280        | 420              | 560        | 700              | V     |    |
| Maximum Average Forward Rectified Output Current @Tc = 55°C                              | IF(AV) | KBPC<br>BR<br>15 | 15         | KBPC<br>BR<br>25 | 25         | KBPC<br>BR<br>35 | 35         | KBPC<br>BR<br>50 | 50    | A  |
| Peak Forward Surge Current<br>8.3ms single half sine-wave<br>super imposed on rated load | IFSM   |                  | 300        |                  | 400        |                  | 400        |                  | 500   | A  |
| Maximum Forward Voltage Drop per Leg<br>at 7.5/12.5/17.5/25.0A Peak                      | VF     | 1.1              |            |                  |            |                  |            |                  |       | V  |
| Maximun Reverse Current at Rate<br>DC Blocking Voltage per element @TA = 25°C            | IR     | 5                |            |                  |            |                  |            |                  |       | uA |
| Operating Temperature Range Tc                                                           | TJ     | -55 to+125       |            |                  |            |                  |            |                  |       | °C |
| Storage Temperature Range TA                                                             | TSTG   | -55 to+150       |            |                  |            |                  |            |                  |       | °C |

NOTES: 1. Also available on KBPC 15W/25W/35W/50W series.

RATING AND CHARACTERISTIC CURVES  
KBPC/BR 15/25/35/50 SERIES



FIG.1 -MAXIMUN FORWARD SURGE CURRENT

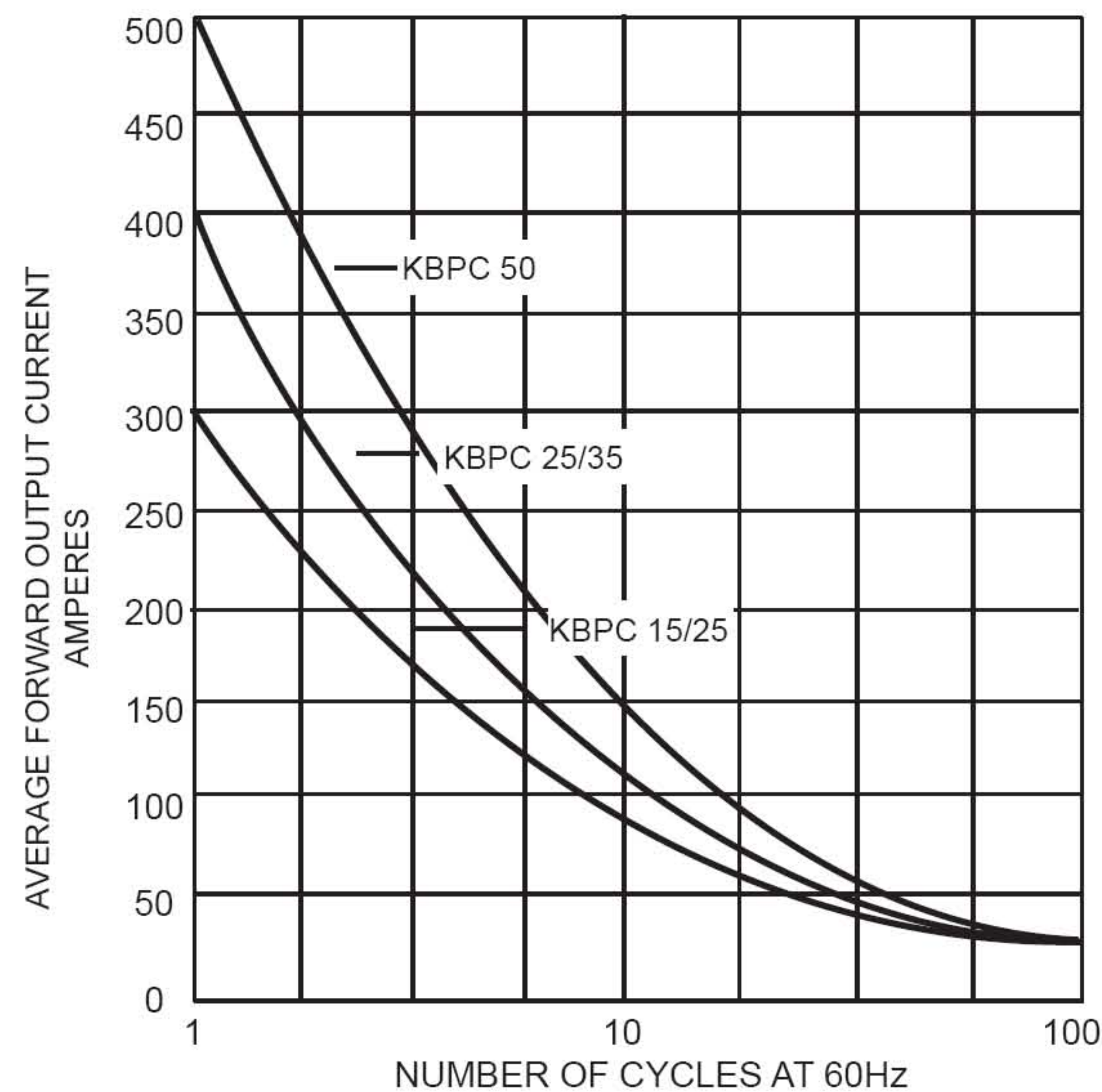


FIG.2 -DERATING CURVE  
OUTPUT RECTIFIED CURRENT

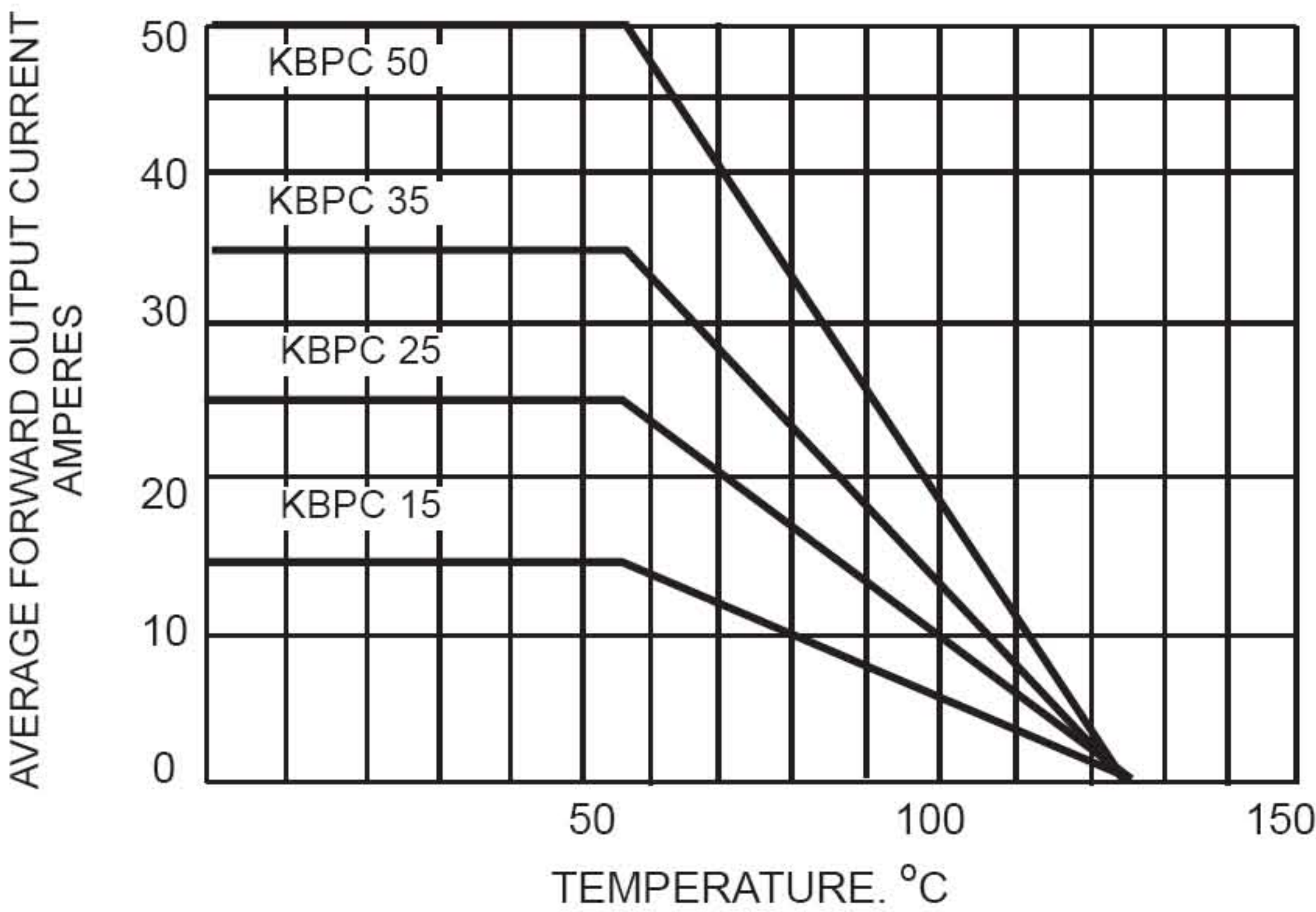


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

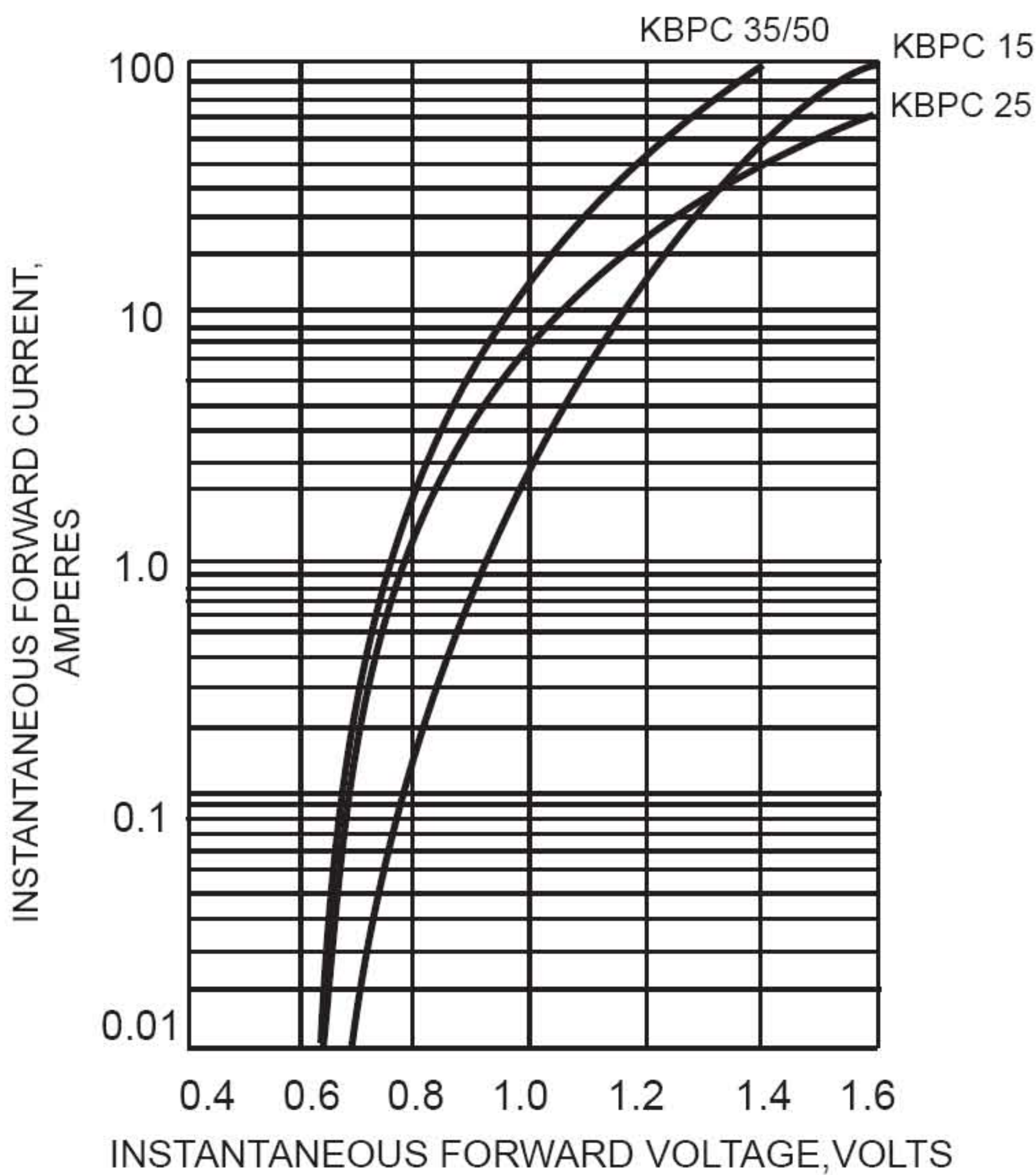


FIG.4 - TYPICAL REVERSE  
CHARACTERISTICS

