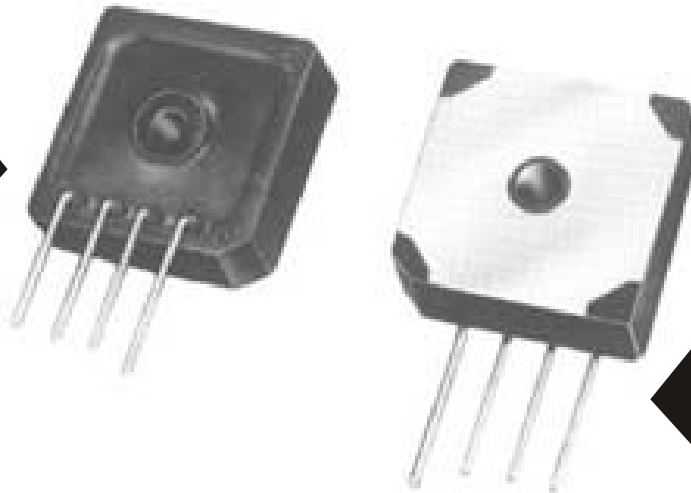





**BRUS7**

**MINIBRIDGE<sup>®</sup>**  
**50 ns. ULTRA-FAST RECOVERY**  
**Approximately 25 AMPERES\***  
**SINGLE-PHASE, FULL-WAVE BRIDGES**

SPACE SAVING  
IN-LINE DESIGN



INTEGRALLY MOLDED  
HEAT SINKS  
PROVIDE LOW  
THERMAL RESISTANCE

 This product has recognition under the component program of Underwriters Laboratories, inc.

PRV/LEG	50V	100V	200V	400V	500V	600V
TYPE NUMBER	BRUS705	BRUS710	BRUS720	BRUS740	BRUS750	BRUS760

ELECTRICAL CHARACTERISTICS PER LEG (at T <sub>A</sub> =25 °C Unless Otherwise Specified)	BRUS7	UNITS
Average Output Current, I <sub>o</sub> @ 60°C T <sub>c</sub>	25	Amps
Max.Forward Voltage Drop, V <sub>F</sub> @ I <sub>F</sub> =12A pk	1.5	Volts
Max.DC Reverse Current @ PRV and 25 °C, I <sub>R</sub>	10	μA
Max.DC Reverse Current @ PRV and 100°C, I <sub>R</sub>	200	μA
Max.Reverse Recovery Time, T <sub>rr</sub> (Fig.3)	50	Nanosec.
Max.Peak Surge Current, I <sub>FSM</sub> (8.3ms)	320	Amps
Thermal Resistance (Total Bridge), R <sub>θj-c</sub>	1.5 typ.	°C/W
Storage Temperature Range, T <sub>STG</sub>	-55 to+150	°C
Ambient Operating Temperature Range, T <sub>A</sub>	-55 to+150	°C

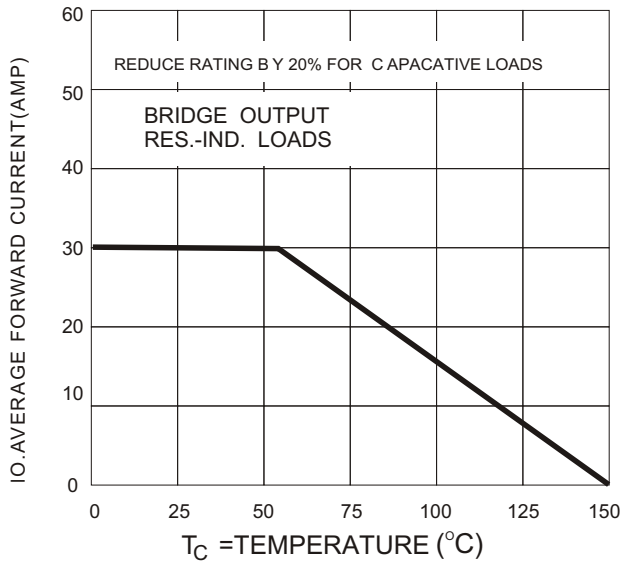
Note 1: Derate I<sub>o</sub> by 20% for capacitive loads

NOTE: Maximum lead and terminal temperature for soldering, 3/8 inch from case, 5 seconds at 250 °C.

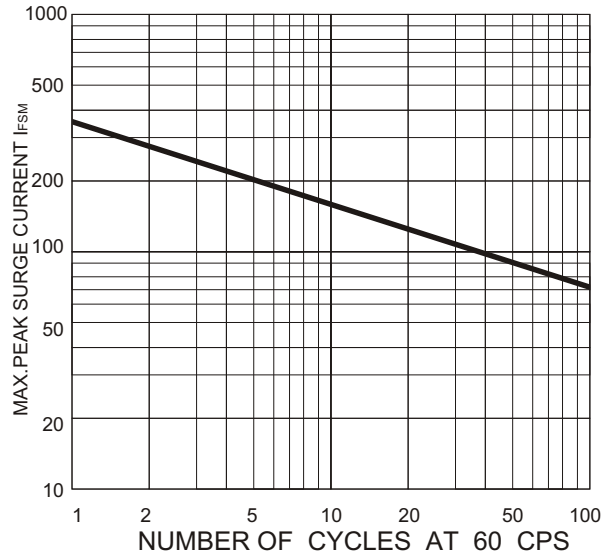
EDI reserves the right to change these specifications at anytime without notice.

# BRUS7

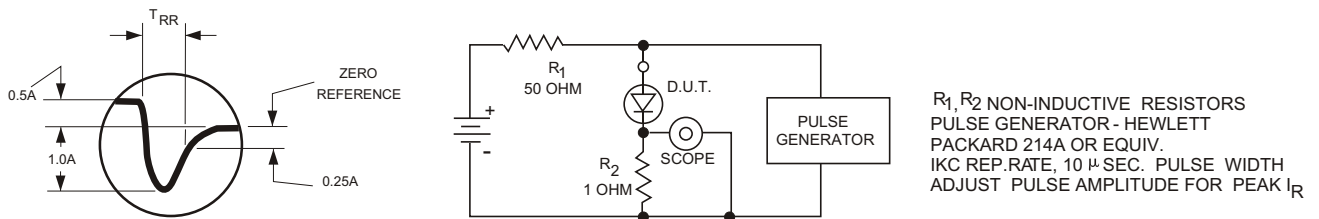
**FIG.1  
CURRENT DERATING**



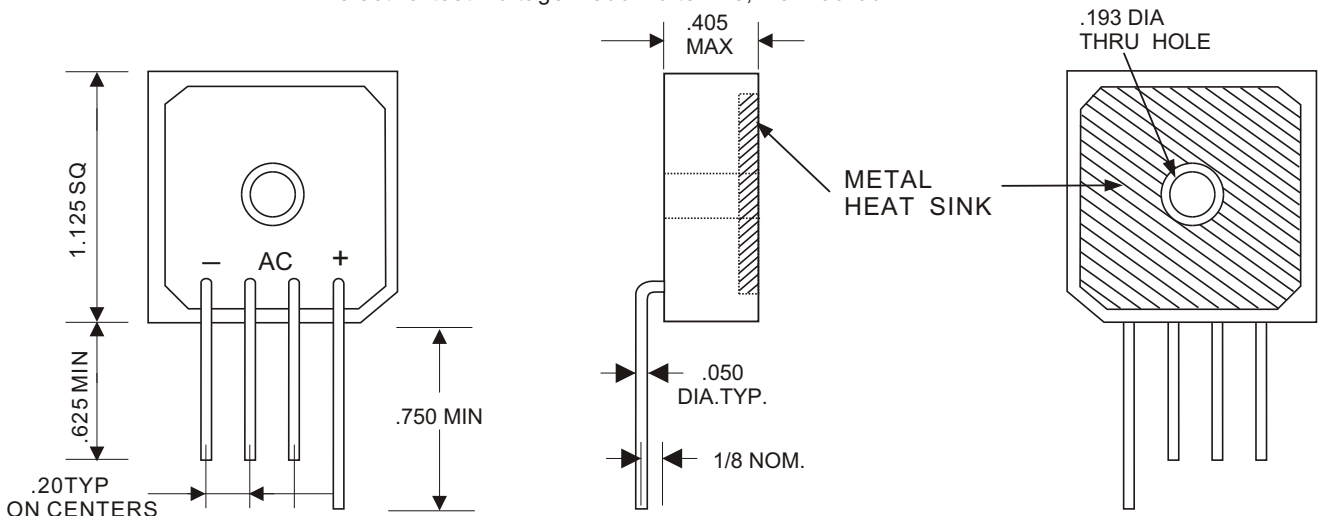
**FIG.2  
NON-REPETITIVE SURGE CURRENT**



**FIG. 3  
REVERSE RECOVERY TEST METHOD**



**BRUS7 MECHANICAL OUTLINE**  
Dielectric test voltage 2500 volts rms, max. 50-60Hz.



ALL DIMENSIONS IN INCHES

1. Corrosion resistant terminals designed for .250 female quick connector, wrap around or solder.
2. A thin film of silicone thermal compound is recommended between the MinibrIDGE® case and mounting surface for improved thermal conduction.
3. Higher dielectric strengths available. Consult factory.