



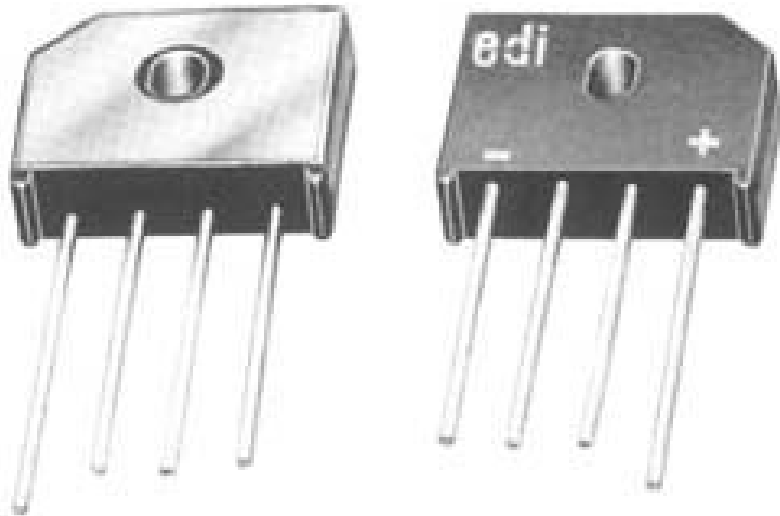
# BRUS6

**MINIBRIDGE®**  
**50 ns. ULTRA-FAST RECOVERY**  
**8 AMPERES\***  
 SINGLE-PHASE, FULL-WAVE BRIDGES  
 HEAT SINK • CHASSIS • P .C. BOARD MOUNTING

INTEGRALLY MOLDED  
 HEAT SINKS  
 PROVIDE LOW  
 THERMAL RESISTANCE



SPACE SAVING  
 IN-LINE DESIGN



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

PRV/LEG	100V	200V	400V	500V	600V
TYPE No.	BRUS610	BRUS620	BRUS640	BRUS650	BRUS660

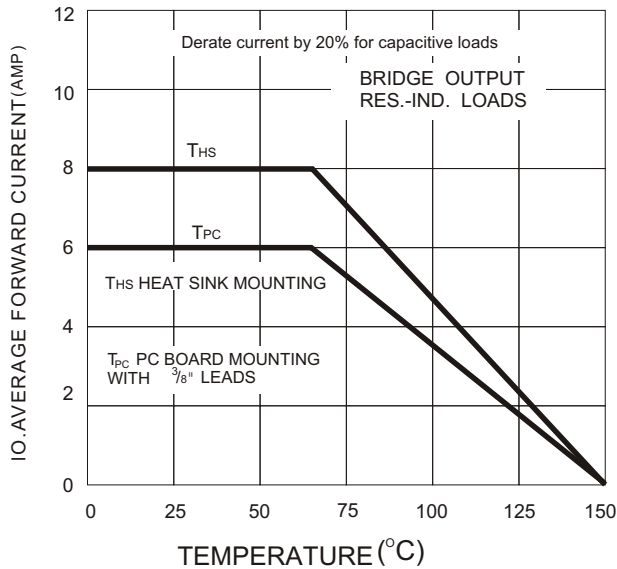
ELECTRICAL CHARACTERISTICS PER LEG (at T <sub>A</sub> =25 °C Unless Otherwise Specified)	BRUS6	UNITS
Average Output Current, I <sub>o</sub> @ 65 °C T <sub>c</sub> (Fig.1)	8	Amps
Average Output Current, I <sub>o</sub> @ 65 °C T <sub>L</sub> (Fig.1)	6	Amps
Max.Forward Voltage Drop, V <sub>F</sub> @ I <sub>F</sub> =4.0A	1.3	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) (Fig.2)	240	Amps
Thermal Resistance (Total Bridge), R <sub>θ j-c</sub>	6.0 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

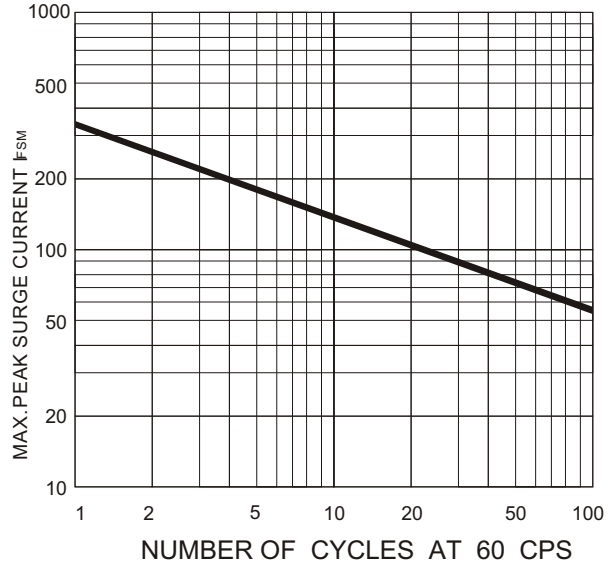
EDI reserves the right to change these specifications at any time without notice.

# BRUS6

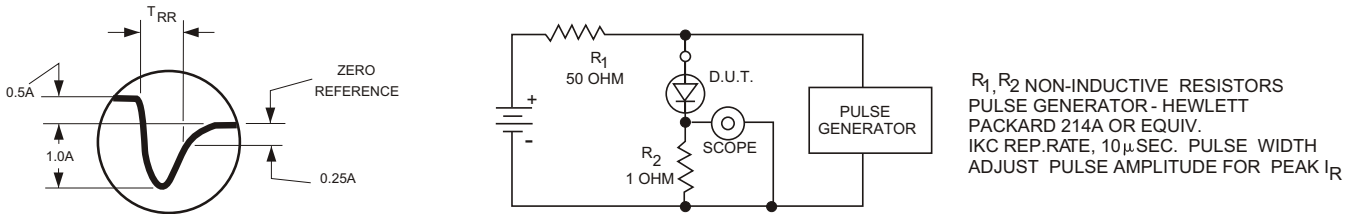
**FIG.1  
CURRENT DERATING**



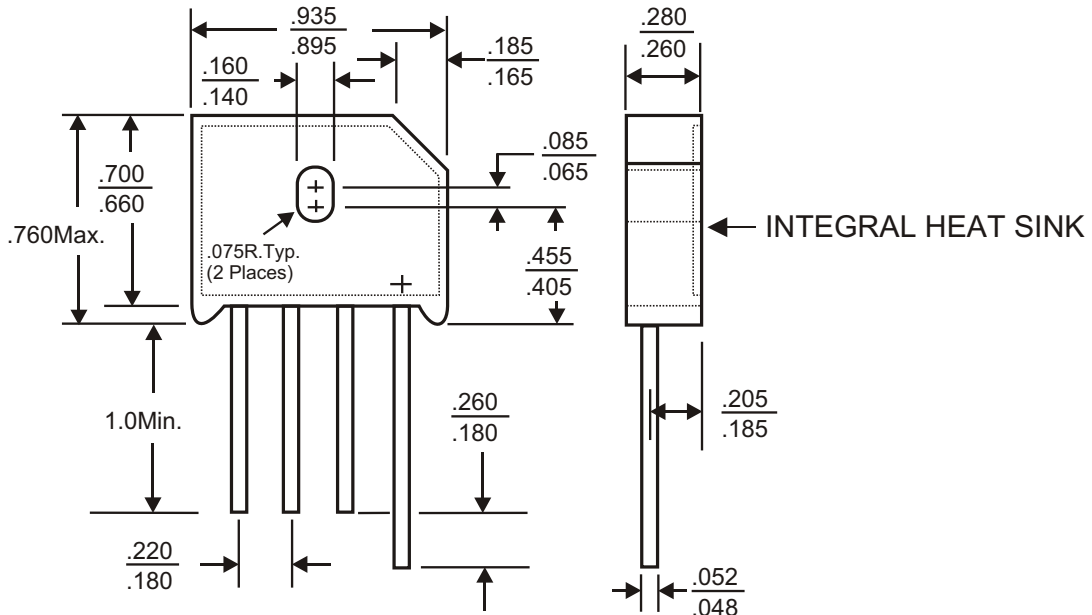
**FIG.2  
NON-REPETITIVE SURGE CURRENT**



**FIG.3  
REVERSE RECOVERY TEST METHOD**



**BRUS6 MECHANICAL OUTLINE**  
Dielectric test voltage 2,500 V rms., max. 50-60Hz



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

**ELECTRONIC DEVICES, INC.** DESIGNERS AND MANUFACTURERS OF SOLID STATE DEVICES SINCE 1951.

21 GRAY OAKS AVENUE \* YONKERS, NEW YORK 10710 914-965-4400 \* FAX 914-965-5531 \* 1-800-678-0828

e-mail: sales@edidiodes.com \* website: <http://www.edidiodes.com>