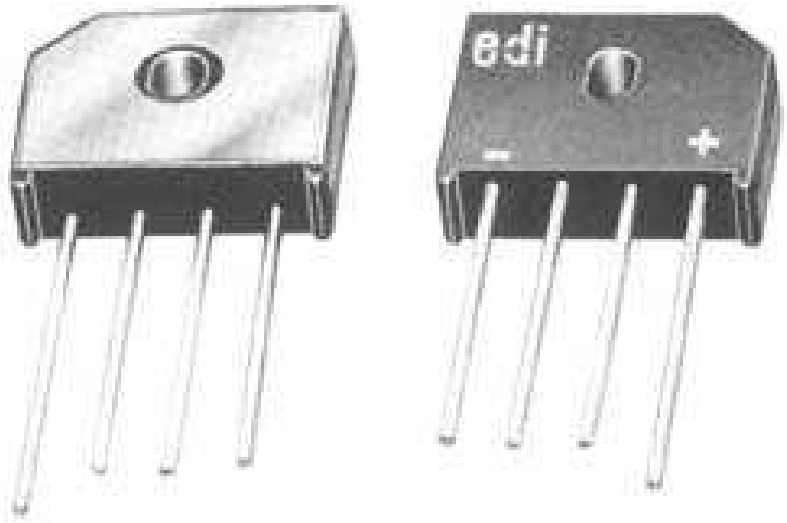
BRUS6

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_A=25 °C Unless Otherwise Specified)	BRUS6	UNITS
Average Output Current, Io @ 65°C T_C (Fig.1)	8	Amps
Average Output Current, Io @ 65°C T_L (Fig.1)	6	Amps
Max.Forward Voltage Drop, V_F@ I_F=4.0A	1.3	Volts
Max.DC Reverse Current @ PRV and 25 °C , I_R	10	µA
Max.DC Reverse Current @ PRV and 100°C, I_R	200	µA
Max.Reverse Recovery Time, T_{rr} (Fig.3)	50	Nanosec.
Max.Peak Surge Current, I_{FSM} (8.3ms) (Fig.2)	240	Amps
Thermal Resistance (Total Bridge), $R\theta_{j-c}$	6.0 typ.	°C/W
Storage Temperature Range, T_{STG}	-55 to+150	°C
Ambient Operating Temperature Range, T_A	-55 to+150	°C

Note 1:Derate Io by 20% for capacitive loads

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

FIG.1
CURRENT DERATING

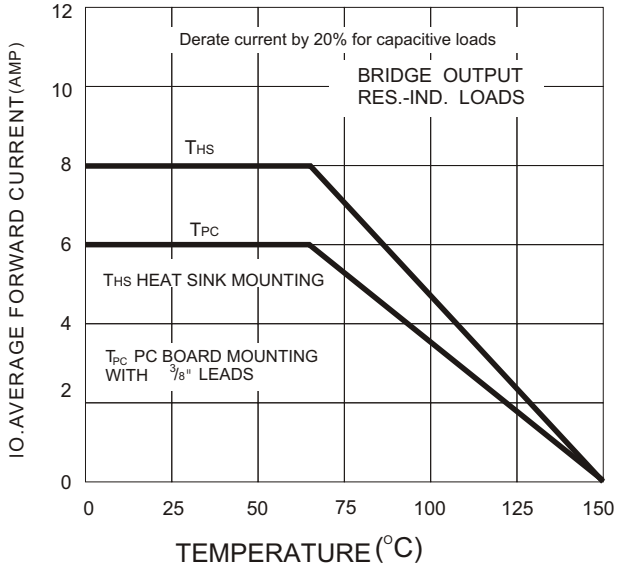


FIG.2
NON-REPETITIVE SURGE CURRENT

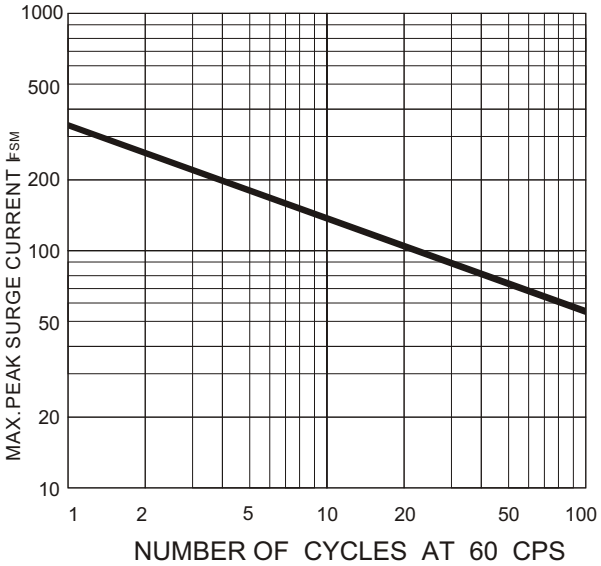
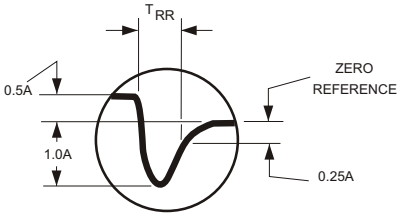
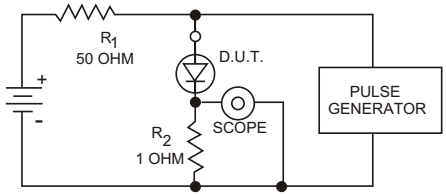


FIG.3
REVERSE RECOVERY TEST METHOD

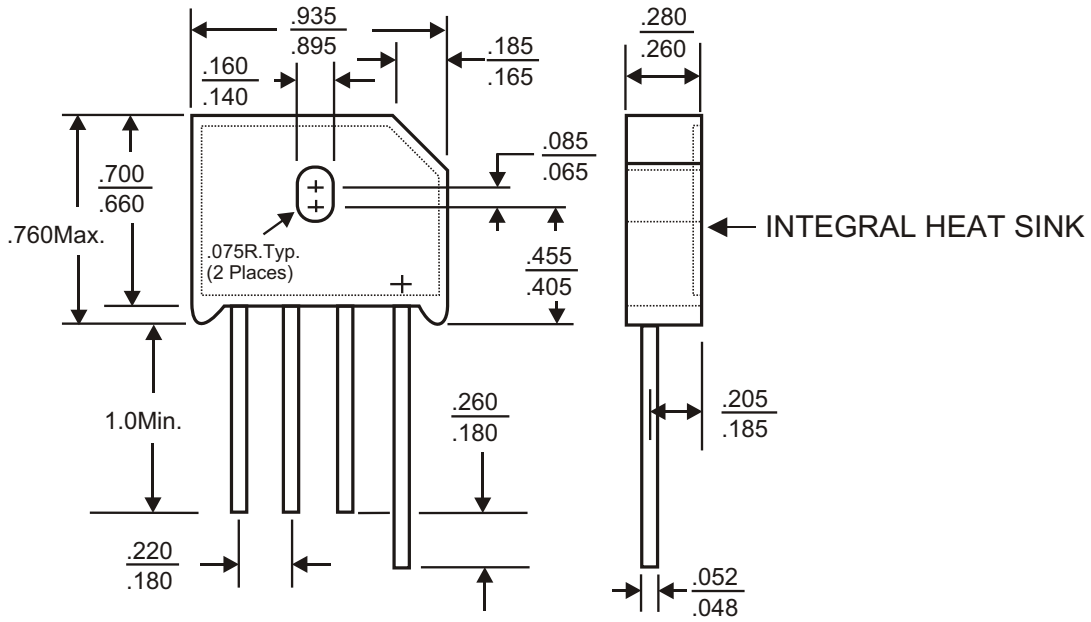




R_1, R_2 NON-INDUCTIVE RESISTORS
PULSE GENERATOR - HEWLETT PACKARD 214A OR EQUIV.
IKC REP.RATE, 10μSEC. PULSE WIDTH
ADJUST PULSE AMPLITUDE FOR PEAK I_R

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