

MINIBRIDGE®

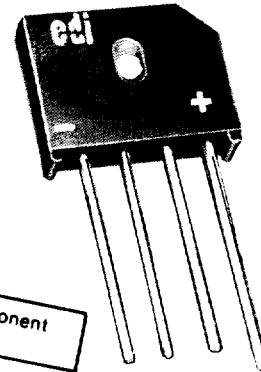
50 ns. ULTRA-FAST RECOVERY

2 to 6 Amperes

SINGLE-PHASE, FULL-WAVE BRIDGES
HEAT SINK • CHASSIS • PC BOARD MOUNTING



BRUS1
3A PC MOUNTING
4A HEAT SINK MOUNTING



BRUS5
5A PC BOARD MOUNTING
6A HEAT SINK MOUNTING

RU This mark indicates recognition under the component program of Underwriters Laboratories, Inc.

PRV/LEG	50V	100V	200V	400V	500V	600V
BRUS1 SERIES	BRUS105	BRUS110	BRUS120	BRUS140	BRUS150	BRUS160
BRUS5 SERIES	BRUS505	BRUS510	BRUS520	BRUS540	BRUS550	BRUS560

ELECTRICAL CHARACTERISTICS PER LEG (at $T_A = 25^\circ\text{C}$ Unless Otherwise Specified)	SERIES DESIGNATION		UNITS
	BRUS1	BRUS5	
Average Output Current, I_O @ 60°C T_C (Fig. 1)	4	6	Amps
Average Output Current, I_O @ 80°C T_L (Fig. 2)	3	5	Amps
Max. Forward Voltage Drop, I_F <small>BRUS1 Series = 2A BRUS5 Series = 4A</small>	1.3	1.3	Volts
Max. DC Reverse Current @ PRV and 25°C , I_R	5	5	μA
Max. DC Reverse Current @ PRV and 100°C , I_R	100	100	μA
Max. Reverse Recovery Time, T_{rr} (Fig. 3)	50	50	Nanosec.
Max. Peak Surge Current, I_{FSM} (8.3ms) (Fig. 2)	100	240	Amps
Storage Temperature Range, T_{stg}	-55 to +150		$^\circ\text{C}$
Ambient Operating Temperature Range, T_A	-55 to +150		$^\circ\text{C}$
Thermal Resistance (Total Bridge), $R_{\theta j-c}$	7.7 typ.	8.7 typ.	$^\circ\text{C/W}$

NOTE: A thin film of silicone thermal compound is recommended between the MinibrIDGE® case and mounting surface for better thermal conduction.

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

edi® **ELECTRONIC DEVICES, INC.** **edi®**

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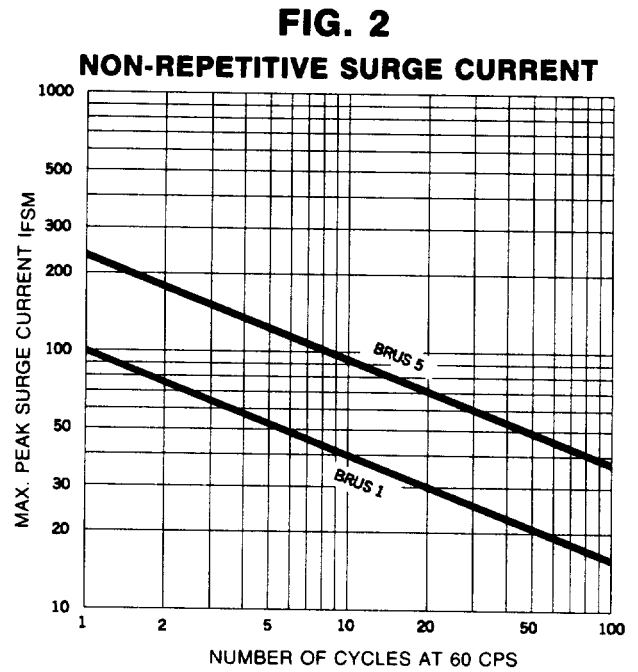
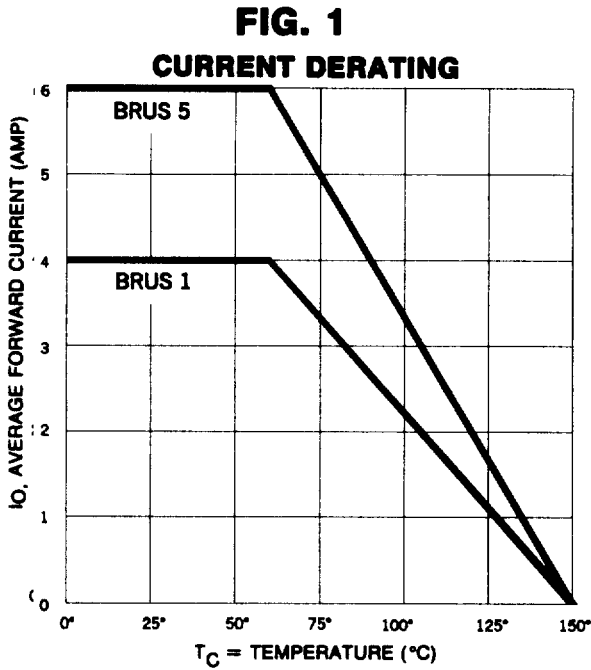
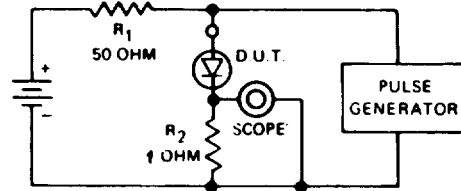
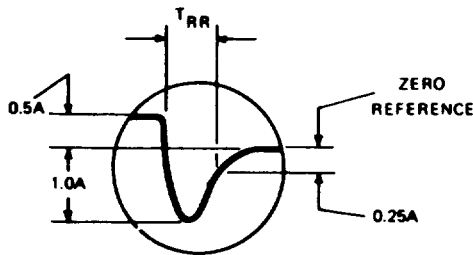


FIG. 3
REVERSE RECOVERY TEST METHOD

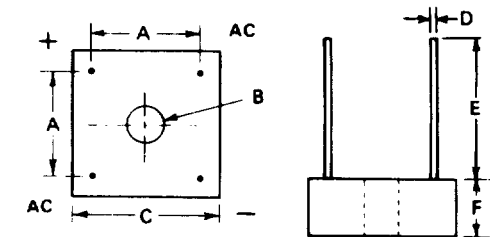


R₁, R₂ NON-INDUCTIVE RESISTORS
PULSE GENERATOR - HEWLETT PACKARD 214A OR EQUIV.
1KC REP. RATE, 10 μ SEC. PULSE WIDTH
ADJUST PULSE AMPLITUDE FOR PEAK I_R

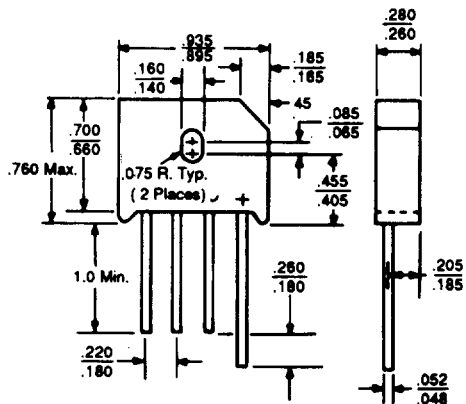
BRUS1 MECHANICAL OUTLINE

BRUS5 MECHANICAL OUTLINE

Dielectric test voltage 2500 volts rms, max. 50-60 Hz.



LTR	INCHES	MILLIMETERS
A	.411 - .441	10.44 - 11.20
B	.137 - .167 DIA	3.48 - 4.24 DIA
C	.590 - .610	14.99 - 15.49
D	.038 - .042	.97 - 1.07
E	.750 MIN	19.05 MIN
F	.300 MAX	7.62 MAX



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

A thin film of silicone thermal compound is recommended between the Minibrige® case and mounting surface for improved thermal conduction.