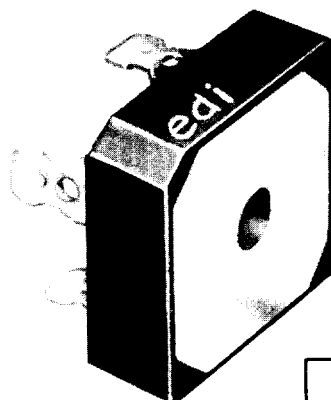
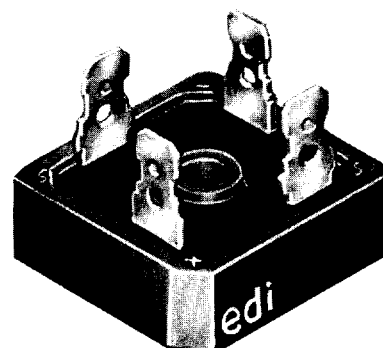


MINIBRIDGE®

FAST RECOVERY, 32 and 40 AMPERES



INTEGRALLY MOLDED
HEAT SINKS
PROVIDE VERY LOW
THERMAL RESISTANCE



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

Our newly developed unique molding technique enables the molding of a heat sink integrally in the bridge encapsulation for greatly improved heat transfer.

SERIES	50V	100V	200V	400V	600V	800V	1000V
FPIR SERIES	FPIR3205	FPIR3210	FPIR3220	FPIR3240	FPIR3260	FPIR3280	FPIR32100
MPIR SERIES	MPIR4005	MPIR4010	MPIR4020	MPIR4040	MPIR4060	MPIR4080	MPIR40100

ELECTRICAL CHARACTERISTICS PER LEG (at T _A = 25°C Unless Otherwise Specified)	SERIES		UNITS
	FPIR32	MPIR40	
Average Output Current, I _O @ T _C (Fig. 1)	32	40	Amp
Max. Forward Voltage Drop, V _F @ I _F = 12A (300 μsec pulse)	1.4	1.4	Volts
Max. DC Reverse Current @ PRV and 25°C, I _R	10	10	μA
Max. DC Reverse Current @ PRV and 100°C, I _R	100	100	μA
Max. Peak Surge Current, I _{FSM} (8.3ms) (Fig. 2)	240	320	Amp
Max. Reverse Recovery Time, T _{rr} (Fig. 3)	250	250	ns.
Storage Temperature Range, T _{stg}	-55 to +150		°C
Ambient Operating Temperature Range, T _A	-55 to +150		°C
Thermal Resistance (Total Bridge), R _{θj-c}	1.5 typ.	1.2 typ.	°C/W



ELECTRONIC DEVICES, INC.

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FIG. 1

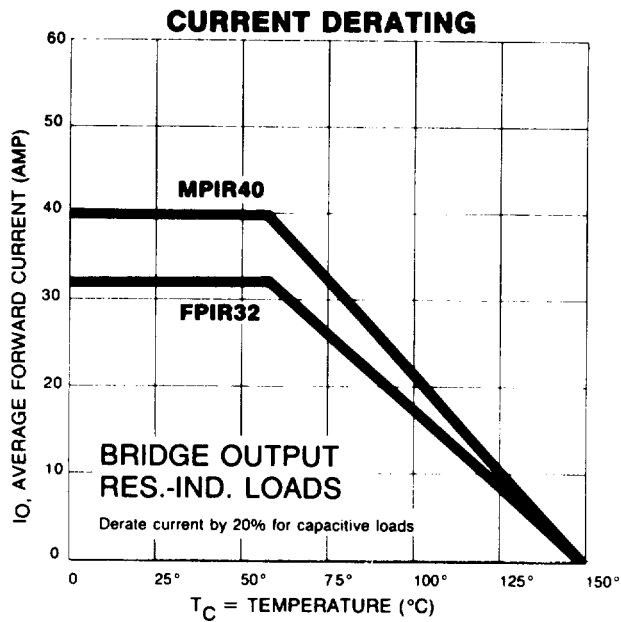


FIG. 2

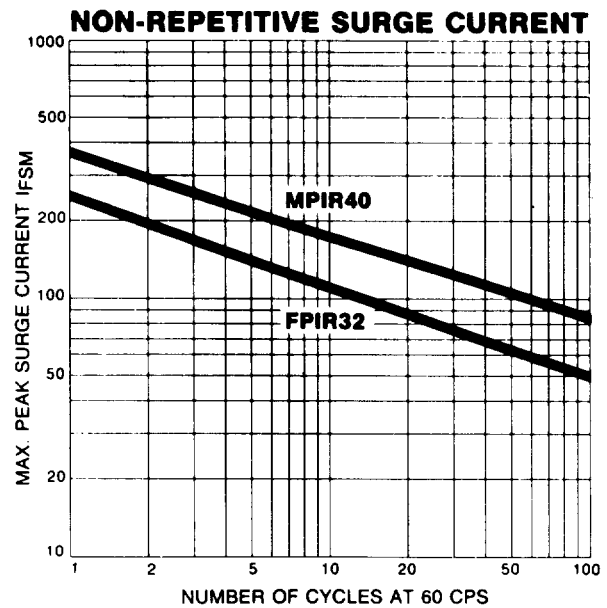
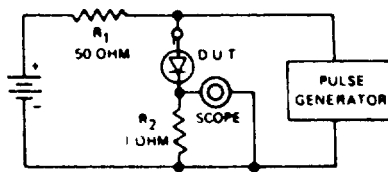
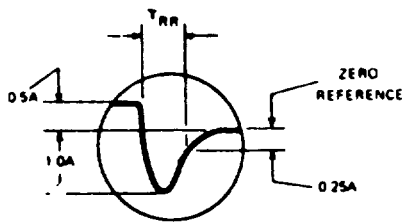


FIG. 3

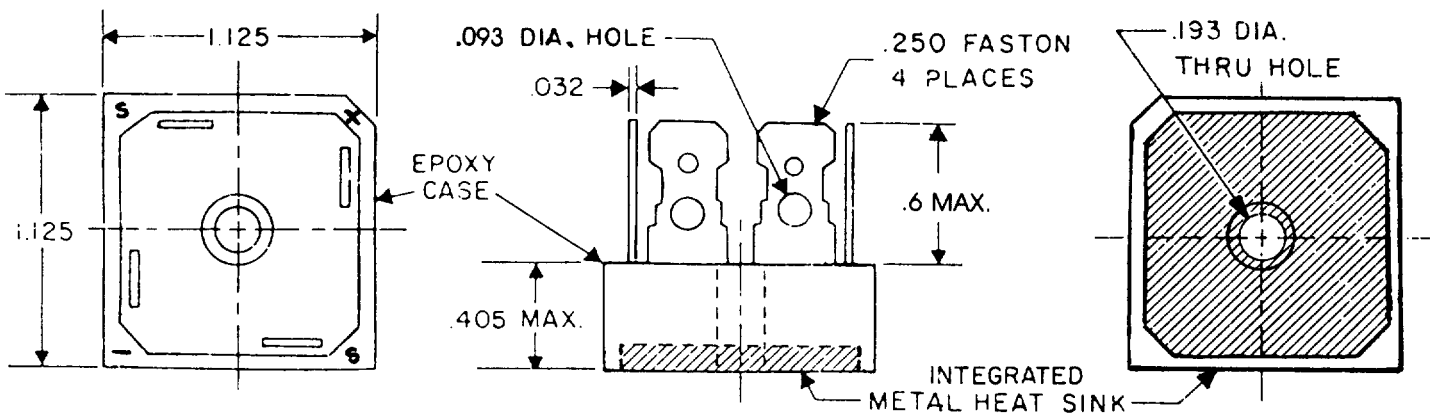
REVERSE RECOVERY TEST METHOD



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

MPIR40 and FPIR32 MECHANICAL OUTLINE

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



- 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.

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