

LOW PROFILE

40 AMP CENTER TAP AND DOUBLER ASSEMBLIES

FAST RECOVERY, SUPER FAST RECOVERY

MAXIMUM RATINGS

TYPE NUMBER	PIV PER LEG	MAX AVERAGE D.C. OUTPUT CURRENT ^①			PEAK 1 CY SUR CUR	MAX FWD VOLTAGE PER LEG		MAX REVERSE CURRENT AT PIV/LEG		MAX REC TIME ^②
		AMPS AT T _C				25°C	25°		μAMPS	
		V	55°C	100°C	125°C	AMPS	V	A	25°C	100°C
S441IE	1000	40	24	12	300	1.1	8.0	10	200	175
S441DA	200	40	24	12	300	1.0	8.0	10	100	30
S444GA	600	24	15	7.5	160	2.4	8.0	10	200	30

① T_C = Case Temperature

② Recovery Conditions I_F = 0.5A, I_R = 1.0A, t_{tr} measured when rectifier recovers to 0.25 Amps

Recovery Time measured on discrete diodes prior to assembly

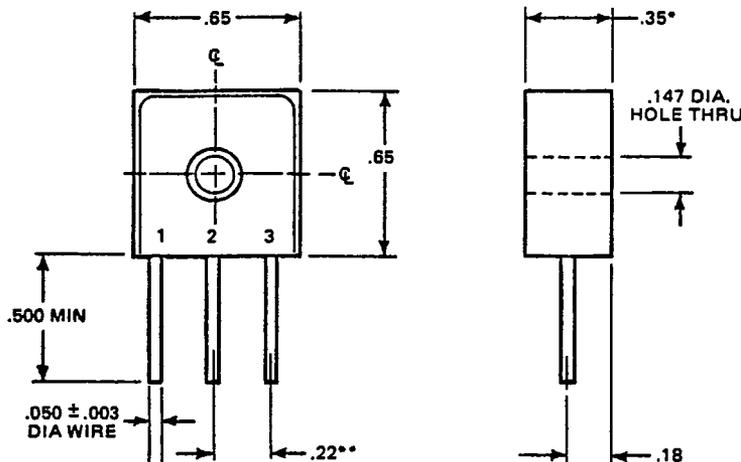
Operating and Storage Temperature -55°C to +150°C

Thermal Impedance, θ_{JC} = 2°C/W

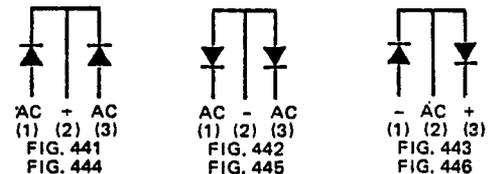
For alternate electrical configuration of the 441 series replace part number with 442 or 443, for the 444 series replace part number with 445 or 446. See schematics for alternate configurations

MECHANICAL DIMENSIONS FOR RECTIFIER ASSEMBLIES

TOLERANCES-INCHES XX = .020 METRIC XX = (.508) (EXCEPT AS NOTED)
 XXX = .010 XXX = (.254)



SCHEMATICS



*POTTING SURFACE UNCONTROLLED

**Q TO Q DIMENSION IS CONTROLLED ON THE FIRST 0.100" OF THE LEAD LENGTH FROM POINT OF EXIT.

FIG. 441 THROUGH 446

40 AMP CENTER TAP AND DOUBLER ASSEMBLIES

FAST RECOVERY, SUPER FAST RECOVERY

MAXIMUM RATINGS

TYPE NUMBER	PIV PER LEG V	MAX AVERAGE D.C. OUTPUT CURRENT ^① AMPS AT T _C			PEAK 1 CY SUR CUR 25°C	MAX FWD VOLTAGE PER LEG 25°C		MAX REVERSE CURRENT AT PIV/LEG μAMPS		MAX REC TIME nSEC ^②
		55°C	100°C	125°C	AMPS	V	A	25°C	100°C	
S447IE	1000	40	24	12	300	1.1	8.0	10	200	175
S447DA	200	40	24	12	300	1.0	8.0	10	100	30
S450GA	600	24	15	7.5	160	2.4	8.0	10	200	30

① T_C = Case Temperature

② Recovery Conditions I_F = 0.5A, I_R = 1.0A, t_{tr} measured when rectifier recovers to 0.25 Amps

Recovery Time measured on discrete diodes prior to assembly

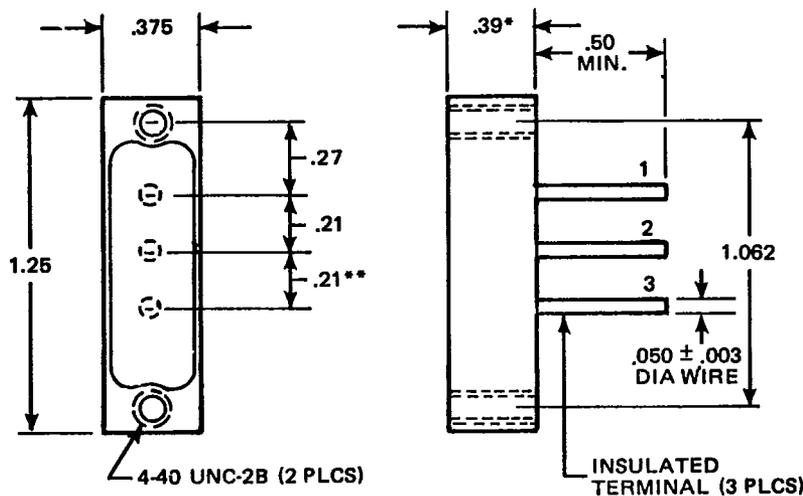
Operating and Storage Temperature -55°C to +150°C

Thermal Impedance, θ_{JC} = 2°C/W

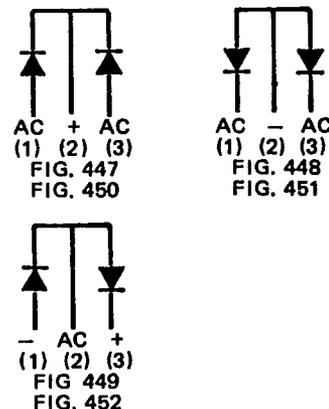
For alternate electrical configuration of the 447 series replace part number with 448 or 449, for the 450 series replace part number with 451 or 452. See schematics for alternate configurations

MECHANICAL DIMENSIONS FOR RECTIFIER ASSEMBLIES

TOLERANCES-INCHES XX ±.020 METRIC XX ±(.508) (EXCEPT AS NOTED)
 XXX ±.010 XXX ±(.254)



SCHEMATICS



*POTTING SURFACE UNCONTROLLED

**Q₁ TO Q₂ DIMENSION IS CONTROLLED ON THE FIRST 0.100" OF THE LEAD LENGTH FROM THE TEFLON BUSHING

NOTE:

AVAILABLE WITH .128 THRU HOLE
 CONSULT FACTORY FOR PART NUMBER

FIG. 447 THROUGH 452