

High-reliability discrete products and engineering services since 1977

UTR10-UTR60, UTR01-UTR61, UTR02-UTR62

FAST RECOVERY RECTIFIERS

FEATURES

• Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

• Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Characteristic	½ amp series	1 amp series	2 amp series
Maximum average DC output current			
@ T _A = 25°C	0.5A	1.0A	2.0A
@ T _A = 100°C	0.25A	0.5A	1.0A
Non-repetitive sinusoidal			
Surge current (8.3ms)	15A	20A	25A
Operating temperature range		-195 to +175°C	
Storage temperature range		-195 to +200°C	

ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise noted

Part number	Peak inverse voltage	Maximum forward voltage drop	Maximum leakage current @ PIV		Maximum reverse recovery time *	Maximum junction capacitance @ 25°C	
voitage	voitage	voltage drop	25°C	100°C	recovery time *	0V	-10V
UTR02	50V					150pf	60pF
UTR12	100V				250ns	100pf	40pF
UTR22	200V					80pf	32pF
UTR32	300V	1.1V @ 1000mA	3μΑ	100µA	300ns	70pf	28pF
UTR42	400V				350ns	60pf	24pF
UTR52	500V				400mc	50pf	20pF
UTR62	600V		400ns 40pf	16pF			
UTR01	50V					150pf	60pF
UTR11	100V				250ns	100pf	40pF
UTR21	200V					80pf	32pF
UTR31	300V	1.1V @ 500mA	3μΑ	100μΑ	300ns	70pf	28pF
UTR41	400V				350ns	60pf	24pF
UTR51	500V				400ns	50pf	20pF
UTR61	600V				400115	40pf	16pF
UTR10	100V				250	100pf	40pF
UTR20	200V				250ns	80pf	32pF
UTR30	300V	1 11/ @ 200 1	24	100	300ns	70pf	28pF
UTR40	400V	– 1.1V @ 200mA	3μΑ	100µA	350ns	60pf	24pF
UTR50	500V				400	50pf	20pF
UTR60	600V				400ns	40pf	16pF



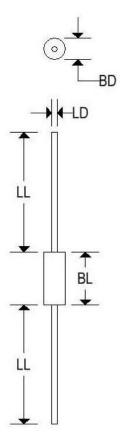
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MECHANICAL CHARACTERISTICS

Case	Digi A
Marking	Body painted, alpha-numeric
Polarity	Cathode band



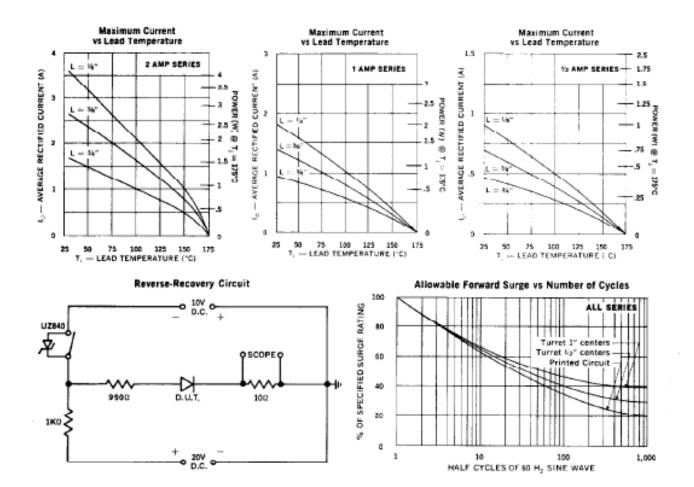
	Digi A				
	Inches		Millimeters		
	Min	Max	Min	Max	
BD		0.095	1	2.413	
BL	275	0.180	-	4.572	
LD	0.028	0.032	0.711	0.813	
LL	0.700	1.00	17.800	1	



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