DIGITRON SEMICONDUCTORS

UT2005-UT2060
UT3005-UT3060
UT4005-UT4060

STANDARD RECOVERY RECTIFIERS

MAXIMUM RATINGS

Peak inverse voltage	2 Amp Series	3 Amp Series	4 Amp Series
50V	UT2005	UT3005	UT4005
100V	UT2010	UT3010	UT4010
200V	UT2020	UT3020	UT4020
400V	UT2040	UT3040	UT4040
600V	UT2060	UT3060	UT4060

Rating	2 Amp Series	3 Amp Series	4 Amp Series
Maximum average DC output current @ T_A = 25°C @ T_A = 100°C	 2.0A 1.0A	 3.0A 1.5A	 4.0A 2.0A
Non repetitive sinusoidal Surge current (8.3ms)	60A	80A	100A
Operating temperature range	-195° to 175°C		
Storage temperature range	-195° to 200°C		
Thermal resistance	See lead temperature derating curve		

ELECTRICAL CHARACTERISTICS (25°C unless otherwise specified)

Part number	Peak inverse voltage	Maximum forward voltage drop		Maximum leakage current at peak inverse voltage	
				25°C	100°C
	Volts	Volts	Amps	µA	µA
UT4005	50	1	3	5	100
UT4010	100	1	3	5	100
UT4020	200	1	3	5	100
UT4040	400	1	3	5	100
UT4060	600	1	3	5	100
UT3005	50	1	2	5	100
UT3010	100	1	2	5	100
UT3020	200	1	2	5	100
UT3040	400	1	2	5	100
UT3060	600	1	2	5	100
UT2005	50	1	1	5	100
UT2010	100	1	1	5	100
UT2020	200	1	1	5	100
UT2040	400	1	1	5	100
UT2060	600	1	1	5	100

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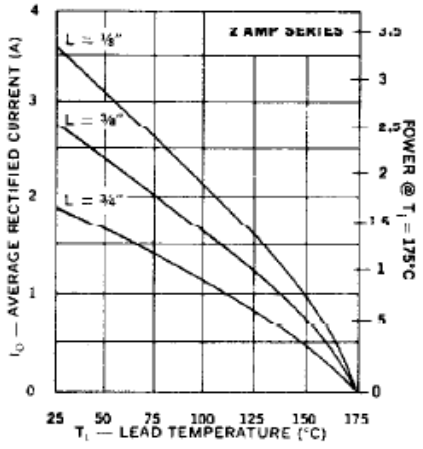
Rev. 20121011

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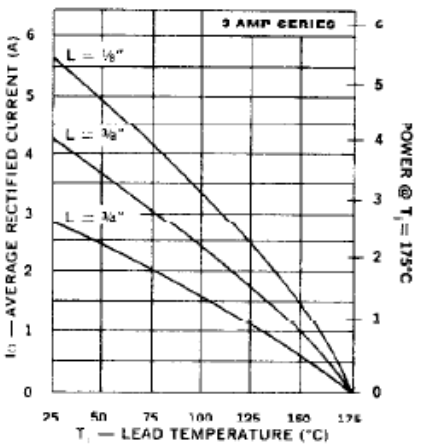
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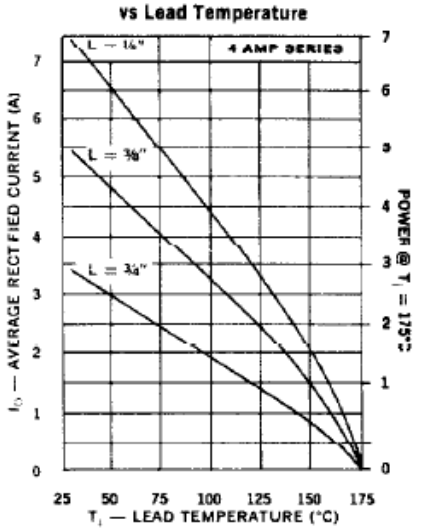
Maximum Current vs Lead Temperature



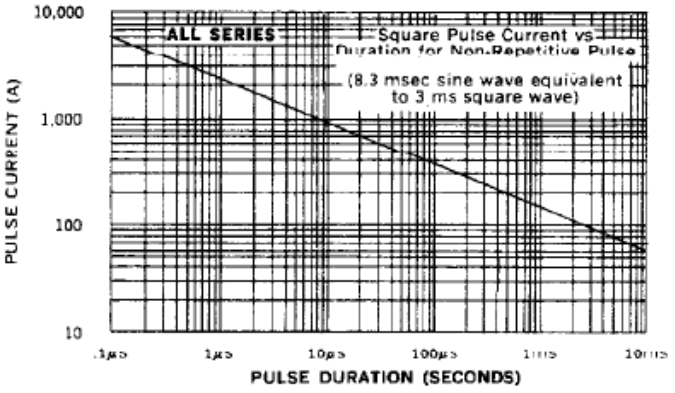
Maximum Current vs Lead Temperature



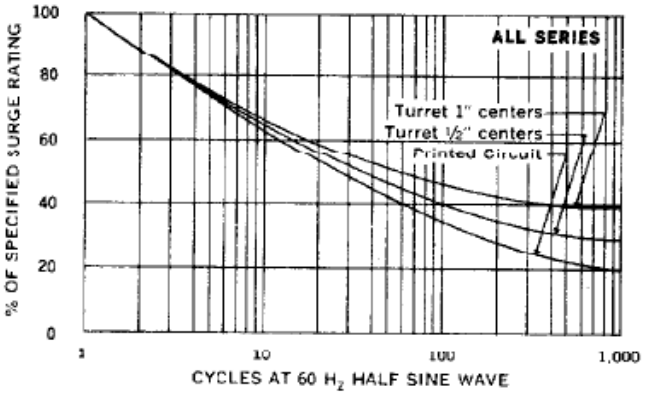
Maximum Current vs Lead Temperature



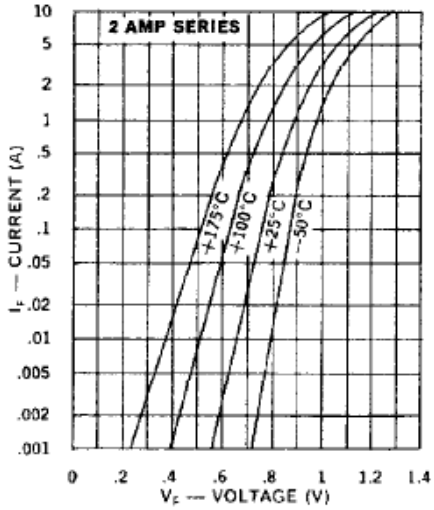
Forward Pulse Current vs Pulse Duration



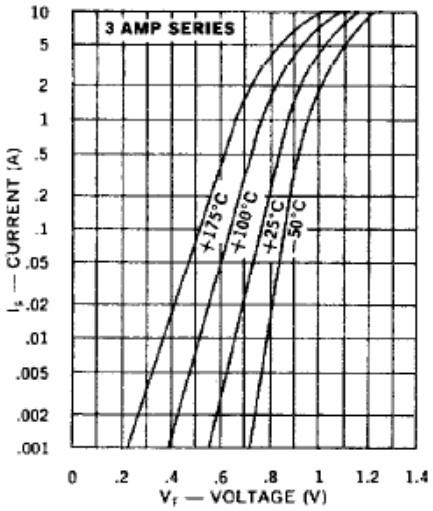
Allowable Forward Surge vs Number of Cycles



Typical Forward Current vs Forward Voltage



Typical Forward Current vs Forward Voltage



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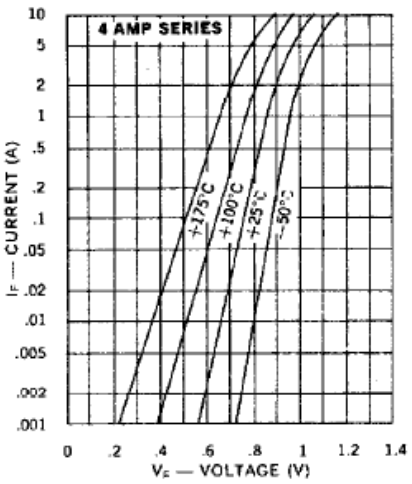
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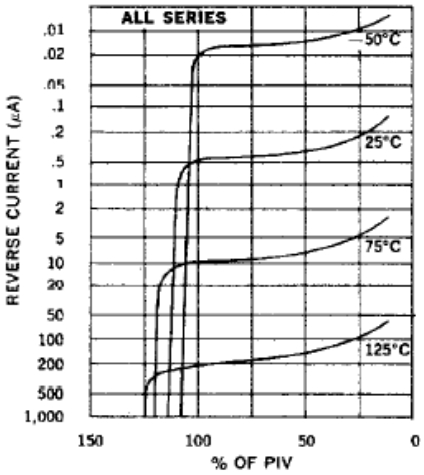
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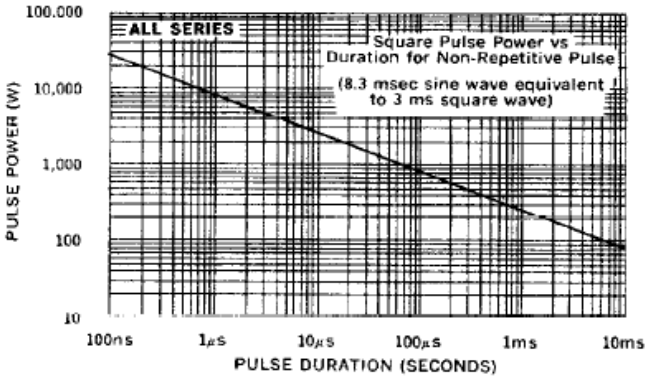
Typical Forward Current vs Forward Voltage



Typical Reverse Current vs PIV

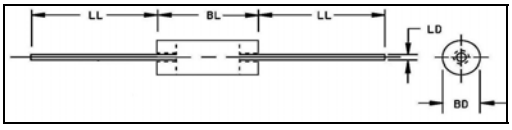


Reverse Pulse Power vs Pulse Duration



MECHANICAL CHARACTERISTICS

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



Dim	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.135	-	3.429
BL	-	0.250	-	6.350
LD	0.038	0.042	0.965	1.067
LL	0.975	-	24.765	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as “HR” (high reliability) screened per MIL-PRF-19500, JANTX level. Add “HR” suffix to base part number.

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