

RECTIFIERS

Standard Recovery, 1 Amp to 2 Amp

UT236-UT347
UT249-UT363
UT251-UT364
UT261-UT268

2

FEATURES

- Continuous Rating: to 2A
- Controlled Avalanche
- Surge Rating: to 30A
- PIV: to 1000V
- Miniature Package

DESCRIPTION

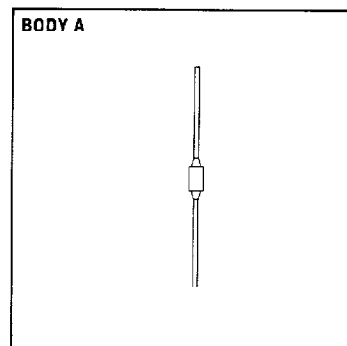
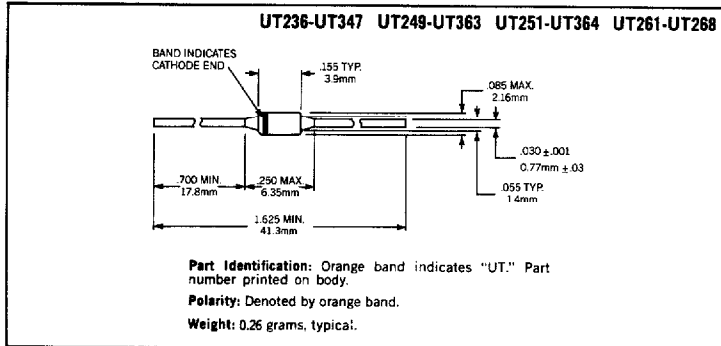
These miniature power rectifiers offer the user extreme reliability for high-reliability military supplies.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage	1 Amp Series	1.25 Amp Series	1.5 Amp Series	2 Amp Series
100V	UT236	UT249	UT251	UT261
200V	UT234	UT242	UT252	UT262
400V	UT235	UT244	UT254	UT264
500V	UT237	UT245	UT255	UT265
600V	UT238	UT247	UT257	UT267
800V	UT361	UT362	UT258	UT268
1000V	UT347	UT363	UT364	

Maximum Average D.C. Output Current	1 AMP SERIES	1.25 AMP SERIES	1.5 AMP SERIES	2 AMP SERIES
@ $T_A = 25^\circ\text{C}$	1.0A	1.25A	1.5A	2.0A
@ $T_A = 100^\circ\text{C}$	0.5A	0.65A	0.75A	1.0A
Non-Repetitive Sinusoidal Surge (8.3ms)	20A	20A	25A	30A
Operating Temperature Range	-195°C to $+175^\circ\text{C}$			
Storage Temperature Range	-195°C to $+175^\circ\text{C}$			
Thermal Resistance	See lead temperature derating curve			

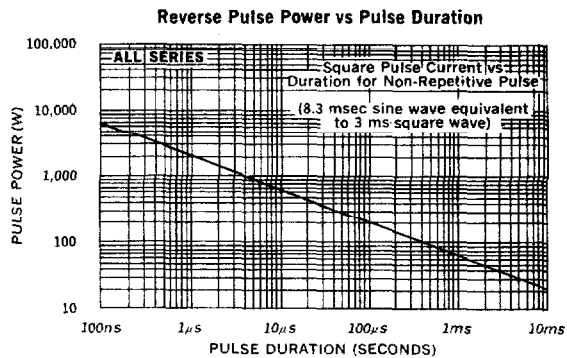
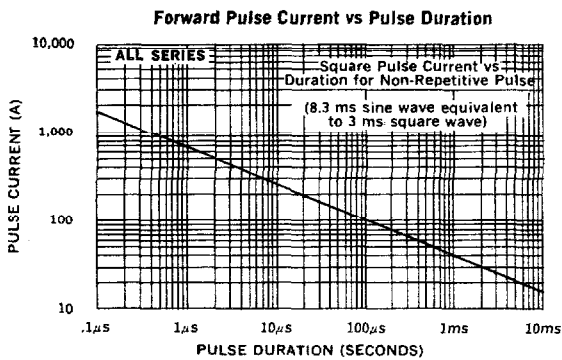
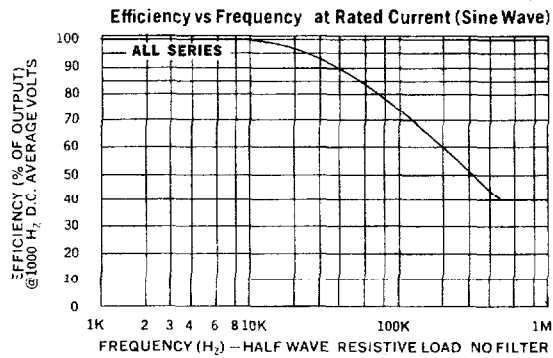
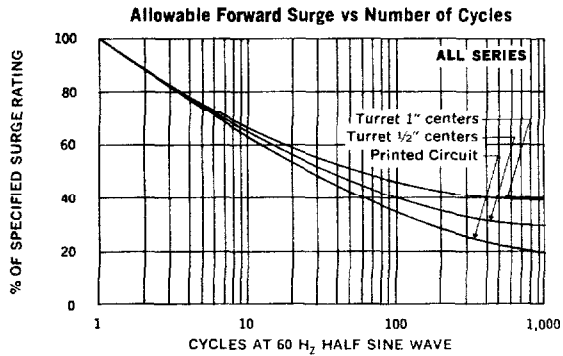
MECHANICAL SPECIFICATIONS



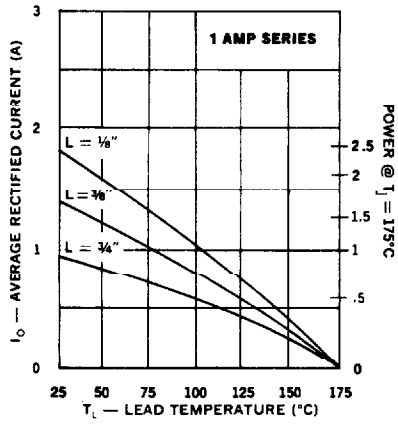
THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

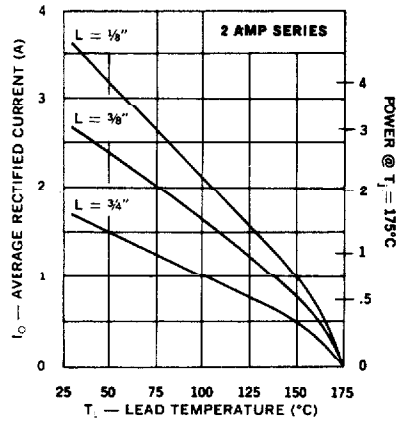
Type	PIV	Maximum Forward Voltage Drop	Maximum Leakage Current @ PIV	
			25°C	100°C
UT261 UT262 UT264 UT365 UT267 UT268	100V 200V 400V 500V 600V 800V	1V @ 900mA	2 μ A	75 μ A
UT251 UT252 UT254 UT255 UT257 UT258 UT364	100V 200V 400V 500V 600V 800V 1000V	1V @ 750mA	2 μ A	75 μ A
UT249 UT247 UT244 UT245 UT247 UT362 UT363	100V 200V 400V 500V 600V 800V 1000V	1V @ 500mA	2 μ A	75 μ A
UT236 UT234 UT235 UT237 UT238 UT361 U134/	100V 200V 400V 500V 600V 800V 1000V	1V @ 400mA	2 μ A	75 μ A



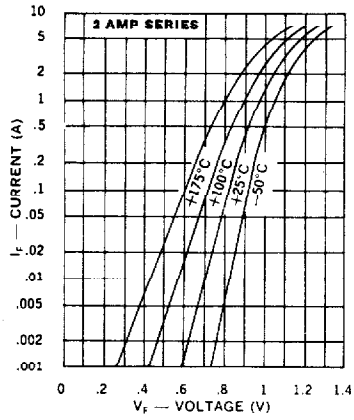
Maximum Current
vs Lead Temperature



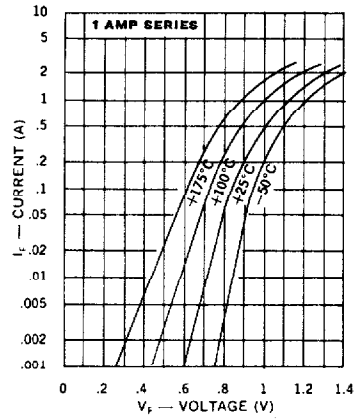
Maximum Current
vs Lead Temperature



Typical Forward Current
vs Forward Voltage



Typical Forward Current
vs Forward Voltage



Typical Leakage Current vs. PIV

