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Rectifier Assemblies
 High Voltage Stacks
 Standard and Fast Recovery
 UFB, UFS, USB, USS Series

<p>FEATURES</p> <ul style="list-style-type: none"> • Controlled Avalanche Characteristics • Glass-Passivated Diodes • High Forward and Reverse Surge Capability • Transfer Molded for Void less Construction • Modular for Easy Stacking • PIV: from 2.5kV to 15kV • Recovery Times: to 500 nS • Continuous Ratings: to 2.3A 	<p>DESCRIPTION</p> <p>These assemblies uniquely combine a versatile stackable design with all the requirements for reliable high voltage operation. All modules are suitable for bridge or series operations.</p>
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ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage, USS Series.....	5.0kV to 15kV
Peak Inverse Voltage, USB Series.....	2.5kV to 10kV
Peak Inverse Voltage, UFS Series.....	5.0kV to 10kV
Peak Inverse Voltage, UFB Series.....	2.5kV to 7.5kV
Maximum Average D.C. Output Current.....	See Electrical Specifications
Non-Repetitive Sinusoidal Surge (8.3mS).....	See Electrical Specifications
Operating and Storage Temperature Range.....	-65°C to +150°C
Thermal Resistance Junction to Ambient.....	50°C/W

MECHANICAL SPECIFICATIONS

MARKING: TYPE NUMBER MARKED ON UNIT
 POLARITY: CATHODE CONNECTED TO STUD

INCHES	
A	.230-.235
B	.980-1.10
C	.020-.040
D	.320-.330
E	.970-1.00



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ELECTRICAL SPECIFICATIONS (at 25°C unless noted)						MAXIMUM RATINGS		
Type	PIV	Maximum Forward Drop Per Leg	Leakage Current @ PIV	Maximum Reverse Recovery Time	Typical Transient Energy Absorption	Maximum Average D.C. Output Current		Non-Repetitive Sinusoidal Surge (8.3mS)
						T _A =25°C AIR	T _A =50°C OIL	
	kV		µA	nS	joules	Amps	Amps	Amps
Standard USS 5	5.0	9V @ 0.6A			1.5	0.60	1.1	
Recovery USS 7.5	7.5	13V @ 0.5A			2.5	0.45	0.91	
USS 10	10	17V @ 0.3A	5	-	3.0	0.35	0.71	25
USS 15	15	25V @ 0.2A			5.0	0.25	0.51	
Standard USB 2.5	2.5	5V @ 1.1A			3.0	1.1	2.3	
Recovery USB 5	5.0	9V @ 0.7A			6.0	0.68	1.5	
USB 7.5	7.5	13V @ 0.5A	10	-	9.0	0.53	1.2	80
USB 10	10	17V @ 0.4A			12	0.43	1.0	
Fast UFS 5	5.0	12V @ 0.5A			1.5	0.50	0.90	
Recovery UFS 7.5	7.5	18V @ 0.4A	5	500*	2.5	0.38	0.75	20
UFS 10	10	23V @ 0.3A		350**	3.0	0.30	0.58	
Fast UFB 2.5	2.5	6V @ 0.9A			3.0	0.90	2.0	
Recovery UFB 5	5.0	12V @ 0.6A	10	500*	6.0	0.58	1.3	70
UFB 7.5	7.5	18V @ 0.4A		350**	9.0	0.45	1.0	

*Measured on discrete devices prior to assembly

*Measured in a reverse recovery circuit switching from 1A forward to 1A reverse current recovering to 0.5A

**Measured in a reverse recovery circuit switching from .5A forward current to 1A reverse current, recovery to .25A