

High-reliability discrete products and engineering services since 1977

## UF110-UF120

## **ULTRA 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.

#### **ELECTRICAL CHARACTERISTICS**

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Characteristics	Symbol	UF110	UF115	UF120	Test Conditions			
Working peak reverse voltage	$V_{RWM}$	100V	150V	200V				
Repetitive peak reverse voltage	$V_{RRM}$	100V	150V	200V				
Average forward current	I <sub>F(AV)</sub>	1.0A			$T_L = 135$ °C, square wave, $R_{\Theta JL} = 15$ °C/W, $L = \frac{1}{4}$ "			
Maximum surge current	I <sub>FSM</sub>	35A			8.3ms, half-sine, T <sub>J</sub> = 175°C			
Maximum peak forward voltage	V <sub>FM</sub>	0.75V			I <sub>FM</sub> = 0.1A, T <sub>J</sub> = 25°C*			
Maximum peak forward voltage	V <sub>FM</sub>	0.95V			I <sub>FM</sub> = 1.0A, T <sub>J</sub> = 25°C*			
Maximum reverse recovery time	t <sub>rr</sub>	30ns			1/2A, 1A, 1/4A, T <sub>J</sub> = 25°C			
Maximum peak reverse current	I <sub>RM</sub>	5μΑ			$V_{RRM}$ , $T_J = 25$ °C			
Typical junction capacitance	C <sub>J</sub>	10pF			V <sub>R</sub> = 10V, T <sub>J</sub> = 25°C			

<sup>\*</sup>Pulse test: pulse width 300μsec, duty cycle 2%

#### THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Conditions	
Storage temperature range	T <sub>stg</sub> -55° to 175°C		
Operating junction temperature range	TJ	-55° to 175°C	
Maximum thermal resistance, L = ¼"	$R_{\Theta JL}$	15°C/W junction to lead	



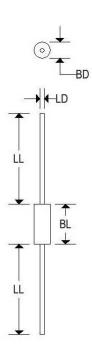
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### MECHANICAL CHARACTERISTICS

Case:	DO-41		
Marking:	Alpha-Numeric		
Polarity:	Cathode Band		



	DO-41						
	Inches		Millimeters				
	Min	Max	Min	Max			
BD		0.107	7	2.720			
BL	(5)	0.205	5	5.207			
LD	0.028	0.034	0.711	0.864			
LL	1.000	188	25.400	650			



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