

UF110-UF120

High-reliability discrete products and engineering services since 1977

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

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 _{F(AV)}	1.0A			$T_L = 135$ °C, square wave, $R_{\Theta JL} = 15$ °C/W, L = ¼"
Maximum surge current	I _{FSM}	35A			8.3ms, half-sine, TJ = 175°C
Maximum peak forward voltage	V _{FM}	0.75V			I _{FM} = 0.1A, T _J = 25°C*
Maximum peak forward voltage	V _{FM}	0.95V			I _{FM} = 1.0A, T _J = 25°C*
Maximum reverse recovery time	t _{rr}		30ns		1/2A, 1A, 1/4A, T」 = 25°C
Maximum peak reverse current	I _{RM}		5μΑ		V _{RRM} , T _J = 25°C
Typical junction capacitance	CJ	10pF			V _R = 10V, T _J = 25°C

*Pulse test: pulse width 300 μ sec, duty cycle 2%

THERMAL CHARACTERISTICS

Characteristics		Test Conditions	
Storage temperature range T _{stg}		-55° to 175°C	
Operating junction temperature range	TJ	-55° to 175°C	
Maximum thermal resistance, L = χ''	R _{ejl}	15°C/W junction to lead	



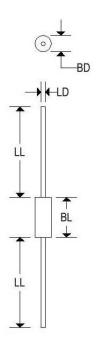
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MECHANICAL CHARACTERISTICS

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



	DO-41						
	Inches		Millimeters				
	Min	Max	Min	Max			
BD		0.107	- 	2.720			
BL	(5)	0.205	Ξ	5.207			
LD	0.028	0.034	0.711	0.864			
LL	1.000	185	25.400				



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