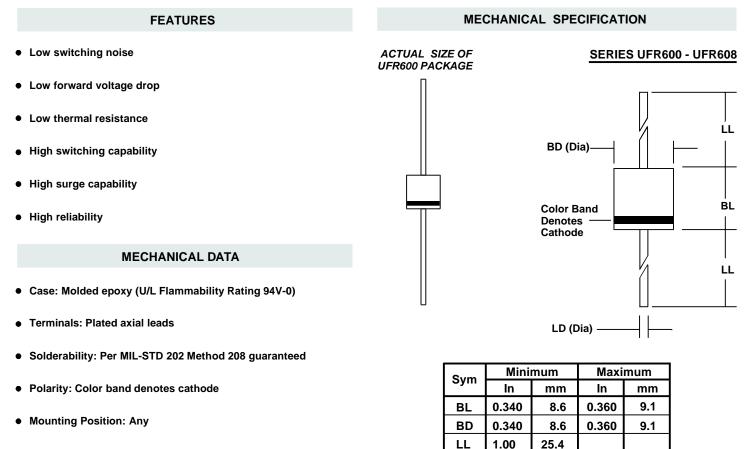


6 AMP ULTRAFAST RECOVERY DIODES



• Weight: 0.07 Ounces (2.1 Grams)

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

LD

0.048

1.2

0.052

1.3

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive loads, derate current by 20%.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS							UNITS
Series Number		UFR 600	UFR 601	UFR 602	UFR 603	UFR 604	UFR 606	UFR 608	
Maximum DC Blocking Voltage	Vrm	50	100	200	300	400	600	800	VOLTS
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	560	
Maximum Peak Recurrent Reverse Voltage	Vrrm	50	100	200	300	400	600	800	
Average Forward Rectified Current @ TA = 55 °C	lo	6						AMPS	
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)	IFSM	300							
Maximum Forward Voltage at 6 Amps DC	Vfm	1.25 1.4						VOLTS	
Maximum Average DC Reverse Current@ Tc = 25 °CAt Rated DC Blocking Voltage@ Tc = 100 °C		10 200						:	μΑ
Typical Thermal Resistance, Junction to Case	Rejc	10							°C/W
Typical Junction Capacitance (Note 1)	CJ	100							pF
Maximum Reverse Recovery Time (IF=0.5A, IR=1A, IRR=0.25A)	Trr	60 75			75	90		nSec	
Junction Operating and Storage Temperature Range	TJ, TSTG	-65 to +150							°C

NOTES: (1) Measured at 1 MHz and an applied reverse voltage of 4 volts.



6 AMP ULTRAFAST RECOVERY DIODES

RATING & CHARACTERISTIC CURVES FOR SERIES UFR600 - UFR608

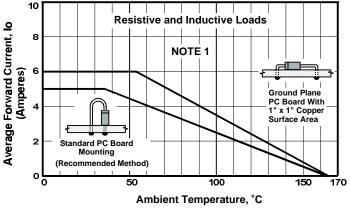


FIGURE 1. FORWARD CURRENT DERATING CURVE

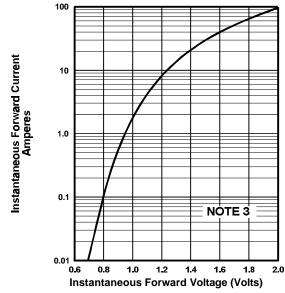


FIGURE 3. TYPICAL FORWARD CHARACTERISTICS

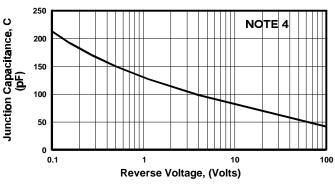


FIGURE 5. TYPICAL JUNCTION CAPACITANCE

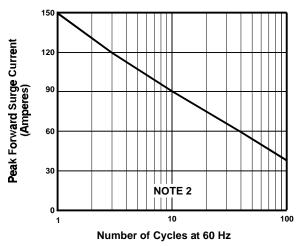
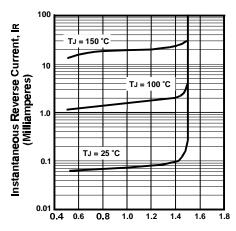


FIGURE 2. MAXIMUM NON-REPETITIVE SURGE CURRENT



Percent of Rated Peak Reverse Voltage FIGURE 4. TYPICAL REVERSE CHARACTERISTICS

NOTES

(1) Single Phase, Half Wave, 60 Hz

(2) JEDEC Method, 8.3 mSec. Single Half Sine Wave;

(3) TJ = 25 °C, Pulse Width = 300 $\mu Sec,$ 2.0% Duty Cycle

(4) TJ = 25 °C, f = 1 MHz, Vsig = 50 mV P-P