

Ultra-Fast Recovery Diodes 8A FRED

Features

- Adopt FRED chip
- Low forward Voltage drop
- Fast reverse recovery time
- High frequency operation
- High purity , high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability

Typical Applications

Typical applications are in switching power supplies , converter freewheeling diodes , and reverse battery protection.

Mechanical Data

- Package:** ITO-220AC
Molding compound meets UL 94 V-0 flammability rating , RoHS-compliant
Terminals: Tin plated leads , solderable per J -STD-

A horizontal line represents a 1D lattice. Above the line, there are five vertical tick marks. Below the line, the sites are labeled from left to right: D, a, i, —, O. The labels are positioned directly under their respective tick marks. The labels 'D', 'a', 'i', and 'O' are in a bold sans-serif font, while the label '—' is a simple horizontal dash.

	stg	†	-55 ~ +175
Junction Temperature	T _j	†	-55 ~ +175
Typical Junction capacitance @4V, 1MHz	C _j	pF	40

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MUR860F

Electrical Characteristics

PARAMETER		UNIT	TEST CONDITIONS		Min	Typ	Max
Instantaneous forward voltage drop per diode	$I_{FM} V$	V	$I_{FM} = 8.0A @ T_j = 25$		-	1.40	1.6
			$I_{FM} = 8.0A @ T_j = 150$		-	1.15	1.3
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	$V_{RM} = V_{RRM}$ $T_j = 25$		-	-	5.0
	I_{RRM2}		$V_{RM} = V_{RRM}$ $T_j = 150$		-	40	200
Reverse Recovery Time	T_{RR}	ns	$I_F = 0.5A$ $dI_M = 1A$ $dI_R = 0.25A$ $T_j = 25$		-	25	35
			$T_j = 25$		-	60	-
			$T_j = 125$		-	300	-
Peak recovery current	I_{RRM}	A	$T_j = 25$	$I_F = 8A$ $di/dt = -200A/\mu s$ $V_{RM} = 200V$	-	3.4	-





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