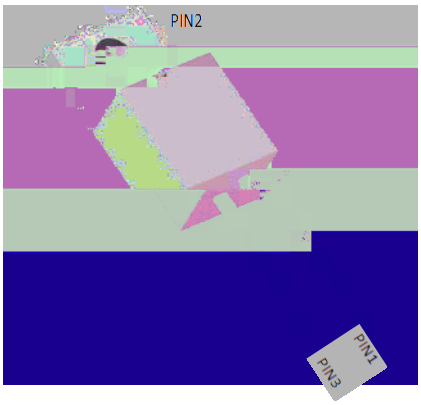
Ultra-Fast Recovery Diodes 8A FRED



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
- Terminal leads solderable per 002 and JESD22-B102
- **Polarity**: As marked

■Maximum Ratings (T_j=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MUR860L	
Device marking code			MUR860L	c(FIG.1)

I_O

Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_j=25	I_{FSM}	A	50
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	12.5
Storage Temperature	T_{stg}		-55 ~ +175
Junction Temperature	T_j		-55 ~ +175
Typical Junction capacitance @4V,1MHz	Cj	pF	42

■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS		Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=8.0A @Tj=25		-	2.15	3.0
			I_{FM}=8.0A @Tj=150		-	-	2.0
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	uA	VRM=VRRM Tj=25		-	-	5.0
	I_{RRM2}		VRM=VRRM Tj=150		-	25	200
Reverse Recovery Time	Trr	ns	IF=0.5A IRM=1A IRR=0.25A Tj=25		-	17	25
			Tj=25	IF=8A di/dt=-200A/us VRM=200V	-	40	-
			Tj=125		-	95	-
Peak recovery current	I_{RRM}	A	Tj=25		-	1.9	-
			Tj=125		-	3.8	-
Reverse recovery charge	Qrr	nC	Tj=25		-	40	-
			Tj=125		-	185	-

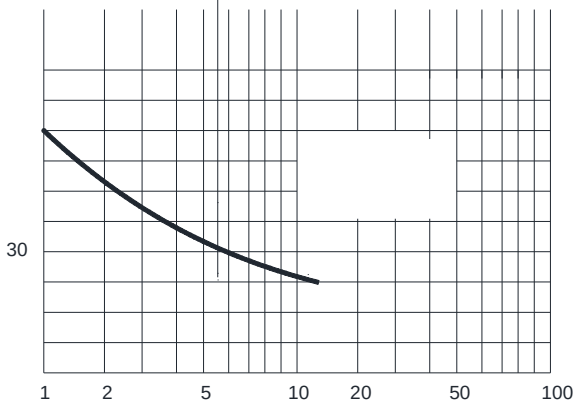
■Thermal Characteristics Tj=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MUR860L
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	2.0
Thermal Resistance	Between junction and Air	$R_{\theta J-A}$	/W	50

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR860L	Approximate 1.8	50	1000	5000	Tube

■Characteristics (Typical)



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