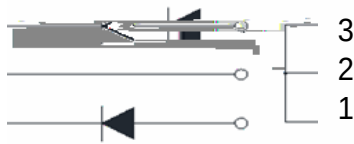
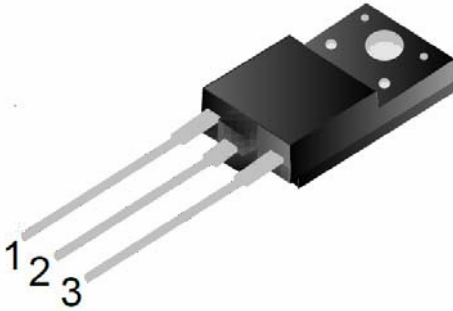




Ultra-Fast Recovery Diodes 30A*2 FRED

Features

Typical Applications



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

Mechanical Data

- **Package:** TO-3PF
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■ Maximum Ratings (T_j=25 °C Unless otherwise specified)

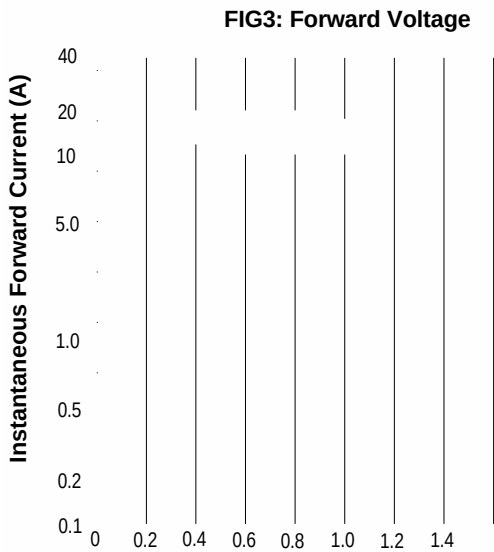
PARAMETER	SYMBOL	UNIT	MUR6060FPT
Device marking code			MUR6060FPT
Repetitive Peak Reverse Voltage	V _{RRM}	V	600
Average Rectified Output Current @60Hz sine wave, R-load, T _c (FIG.1)	I _O	A	60
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _j =25 °C	I _{FSM}	A	300
Current Squared Time @1ms≤t≤8.3ms T _j =25 °C	I ² t	A ² s	373
Single Pulse Avalanche Energy @ T _p =40μs, T _j =25 °C, L=15mH	EAS	mJ	385
Storage Temperature	T _{stg}		-55 ~ +175
Junction Temperature	T _j		-55 ~ +175
Typical Junction capacitance @4V,1MHz	C _j	pF	195



MUR6060FPT

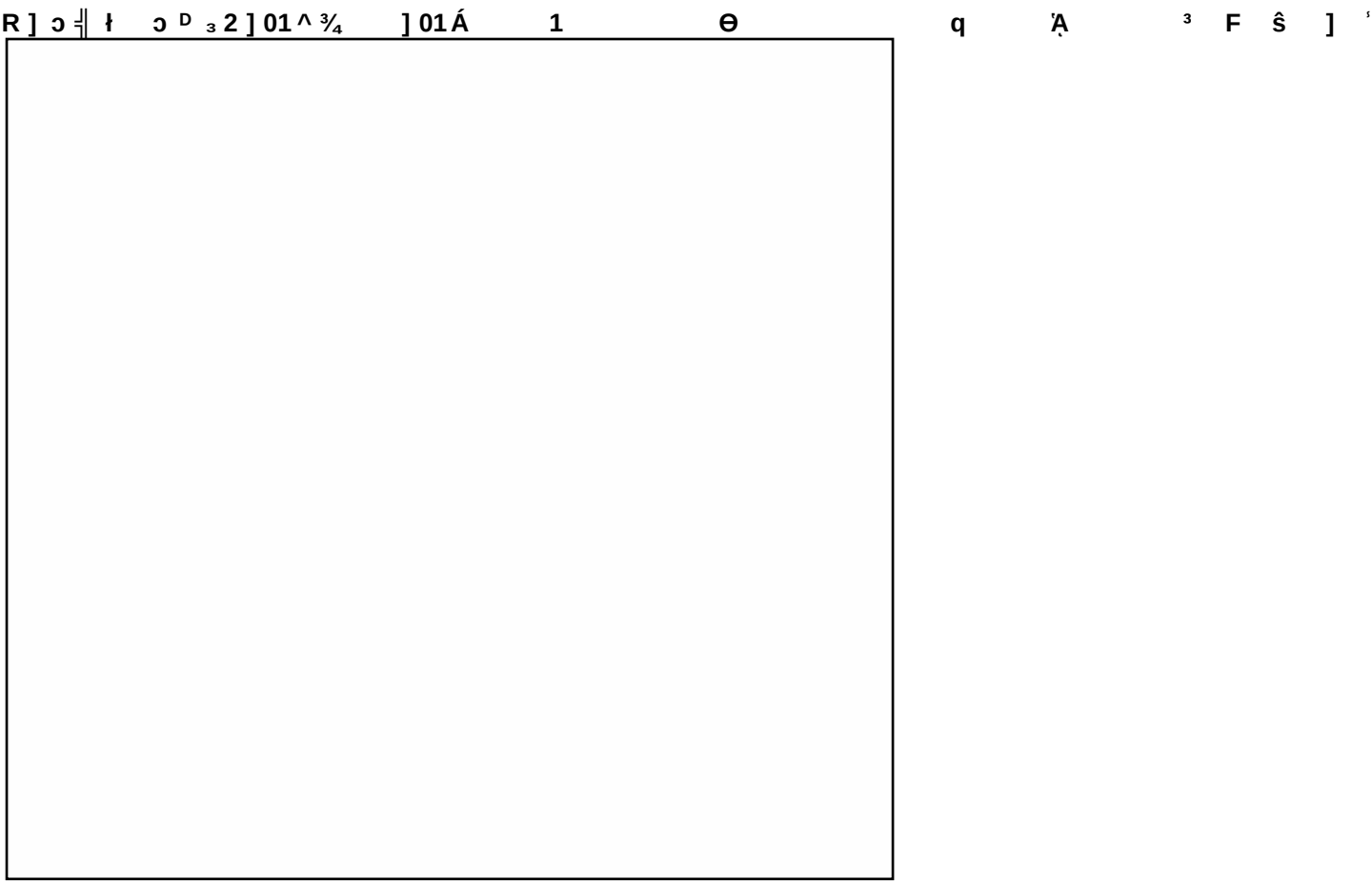
■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=30.0A @ T_J=25$	-	1.45	1.6
			$I_{FM}=30.0A @ T_J=150$		1.25	1.45
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	$V_{RM}=V_{RRM}$ $T_J=25$	-	-	5.0
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_J=150$	-	65	200
			$I_F=0.5A$ $I_{RM}=1A$ $I_{RR}=0.25A$ $T_J=25$	-	38 †	50
Reverse Recovery Time	T_{rr}	ns				





■ Outline Dimensions





MUR6060FPT

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