



Ultra-Fast Recovery Diodes 30A FRED

Features

- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

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

Mechanical Data

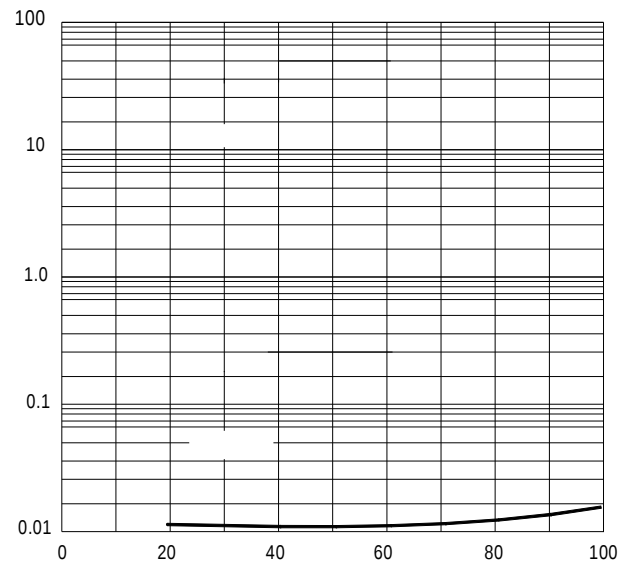
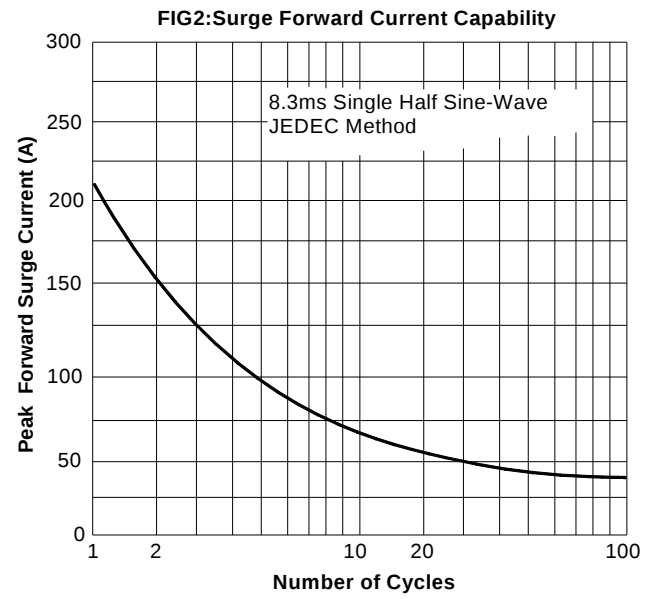
- **Package:** TO-263
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

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

PARAMETER	SYMBOL	UNIT	MURB30120L
Device marking code			MURB30120L
Repetitive Peak Reverse Voltage	V _{RRM}	V	1200
Average Rectified Output Current @60Hz half sine-wave, R-load, T _c (FIG.1) 0 °C		A	30
	t _f	A ² s.	183
Single Pulse Avalanche Energy @ T _p =40μs, T _j =25 °C, L=15mH	E _{AS}	mJ	2.7
Storage Temperature	T _{stg}		-55 ~ +175
Junction Temperature	T _j		

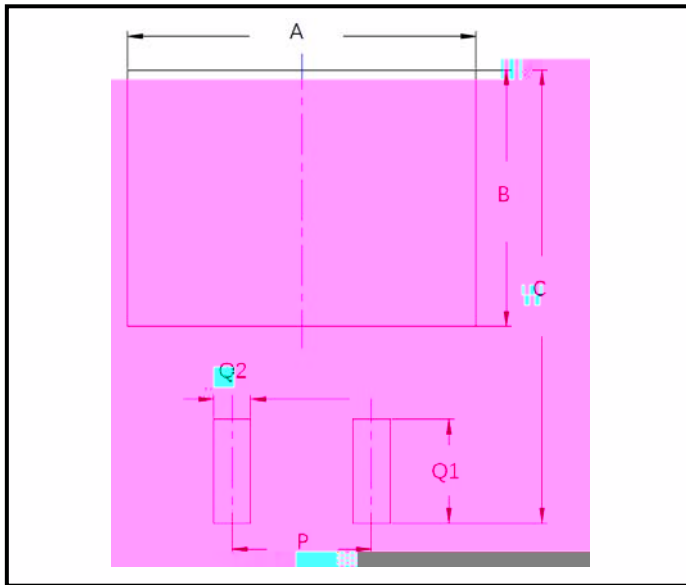


■Characteristics (Typical)





■ Suggested Pad Layout



Dim	Millimeters
A	12.7
B	9.4
C	16.6
P	5.08
Q1	3.8
Q2	1.35



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