



MUR420H THRU MUR460H

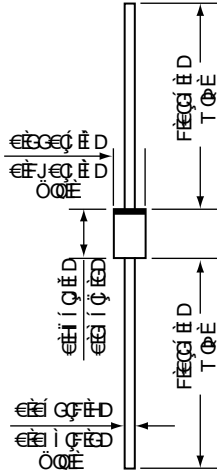
SINTERED GLASS PASSIVATED ULTRA FAST RECTIFIER

Reverse Voltage - 200 to 600 Volts

Forward Current - 4.0 Amperes

PATENTED

DO-201AD



DO-201AD (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)

SUPEREX IITM



FEATURES

- * Packed in a carrier tape
- * Ultra fast recovery time
- * Low forward voltage drop
- * High reverse voltage capability
- * High reliability
- * Low inductance
- * Low thermal resistance
- * High efficiency
- * High power density
- * High temperature capability

MECHANICAL DATA

- Case: DO-201AD
- Terminals: Au wire bonds
- Polarity: Cathode marked with a band
- Weight: 0.01g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	MUR420H	MUR460H	UNITS
Reverse Voltage	V _{RRM}	200	600	V
Forward Current (continuous)	I _F	4.0	4.0	A
Forward Current (peak)	I _{FM}	10.0	10.0	A
Reverse Recovery Time	t _{rr}	1.0	1.0	ns
Forward Voltage Drop	V _F	1.0	1.0	V
Storage Temperature Range	T _{stg}	-55 to 150	-55 to 150	°C
Operating Temperature Range	T _{op}	-55 to 150	-55 to 150	°C
Thermal Resistance (junction to case)	R _{θjc}	1.0	1.0	°C/W
Thermal Resistance (junction to ambient)	R _{θja}	100	100	°C/W
Inductance	L	1.0	1.0	nH
Capacitance	Cj	1.0	1.0	pF
Reverse Leakage Current	I _R	1.0	1.0	µA
Dynamic Resistance	r _d	1.0	1.0	Ω

NOTES: (1) Pulse width limited by SOA. (2) Pulse repetition rate limited by SOA. (3) V_{RRM} is limited by SOA.

RATINGS AND CHARACTERISTIC CURVES MUR420H THRU MUR460H

FIG.1 - FORWARD CURRENT DERATING CURVE

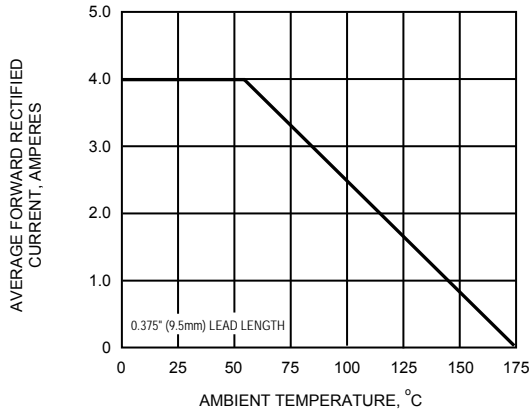


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

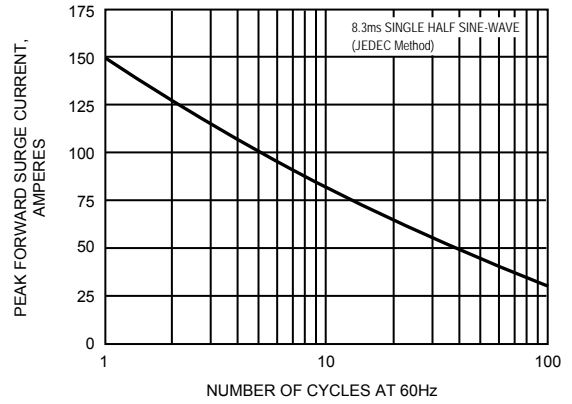


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

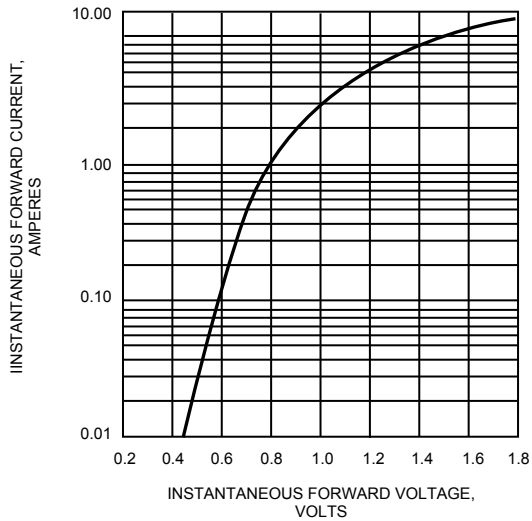


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

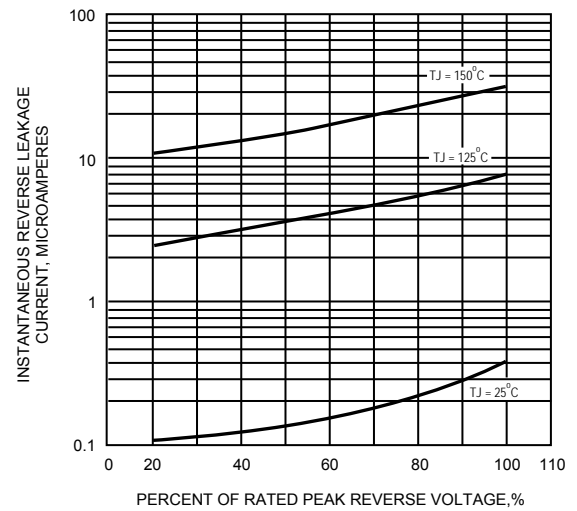


FIG.5 - TYPICAL JUNCTION CAPACITANCE

