

SUPER FAST RECOVERY SILICON RECTIFIER

VOLTAGE RANGE 600 Volts CURRENT 4.0 Amperes

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Super fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

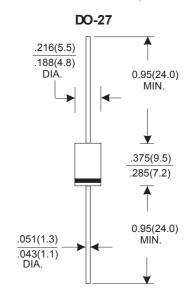
Case: JEDEC DO-27 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 1.04 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Type Number	Symbol	MUR460	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length (See Fig. 1)	I _(AV)	4.0	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	125	А
Maximum Instantaneous Forward Voltage @ 4.0A	V _F	1.30	V
Maximum DC Reverse Current @ T_c =25 °C at Rated DC Blocking Voltage @ T_c =125 °C	I _R	10 250	uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Typical Junction Capacitance (Note 2) TJ = 25 °C (Fig. 5)	Cj	65	pF
Maximum Forward Recovery Time TFR (IF=1.0A, di/dt = 100A/us, Rev. to 1.0V)	T _{FR}	50	nS
Typical Thermal Resistance (Note 3)	R ₀ JA	28	°C/W
Operating Temperature Range	TJ	-65 to +150	°C
Storage Temperature Range	Tstg	-65 to +150	°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

RATING AND CHARACTERISTIC CURVES

MUR460

