

SUPER FAST RECTIFIERS

VOLTAGE RANGE: 50--- 1000 V
CURRENT: 4.0 A

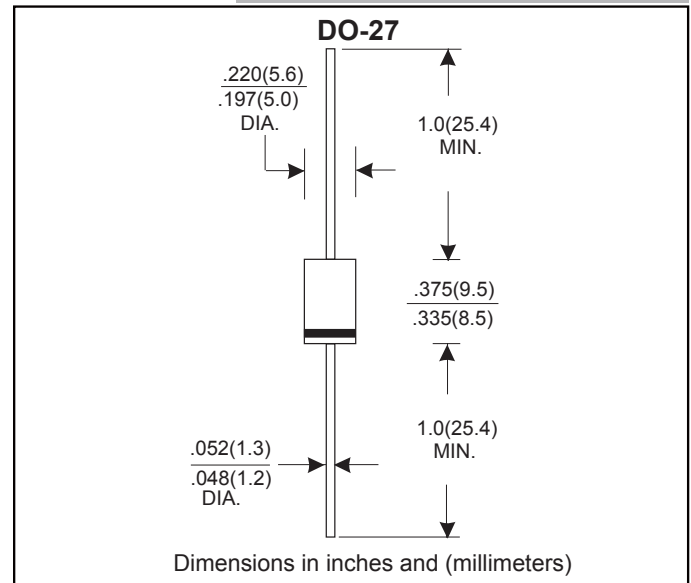
Features

- Halogen free available upon request by adding suffix "-HF"
- High Surge Capability
- Low Leakage and Low Forward Voltage Drop
- Ultra Fast Switching Speed For High Efficiency
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Epoxy meets UL 94 V-0 flammability rating

MECHANICAL DATA

- Case: DO-27 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate by 20%.

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR405	MUR405	50V	35V	50V
MUR410	MUR410	100V	70V	100V
MUR415	MUR415	150V	105V	150V
MUR420	MUR420	200V	140V	200V
MUR440	MUR440	400V	280V	400V
MUR460	MUR460	600V	420V	600V
MUR480	MUR480	800V	550V	800V
MUR4100	MUR4100	1000V	700V	1000V

Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C
Moisture Sensitivity Level 1
Typical Thermal Resistance 20 °C/W

Electrical Specification (T_A=25°C unless otherwise specified)

Average Forward Current	I _{F(AV)}	4.0A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MUR405-415 MUR420-460 MUR480-4100	V _F	1.00V 1.35V 1.85V	I _{FM} = 4.0A; T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10uA 50uA	T _A = 25°C T _A = 100°C
Maximum Reverse Recovery Time MUR405-415 MUR420-460 MUR480-4100	T _{rr}	45ns 60ns 75ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance MUR405-460 MUR480-4100	C _J	80pF 50pF	Measured at 1.0MHz, V _R =4.0V

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

RATINGS AND CHARACTERISTIC CURVES

■ Typical Characteristics

Figure 1
Typical Forward Characteristics

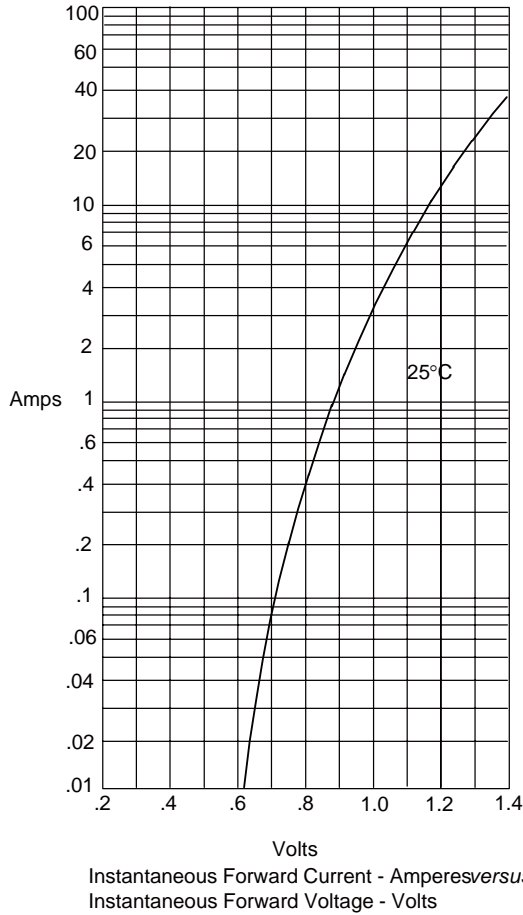


Figure 2
Forward Derating Curve

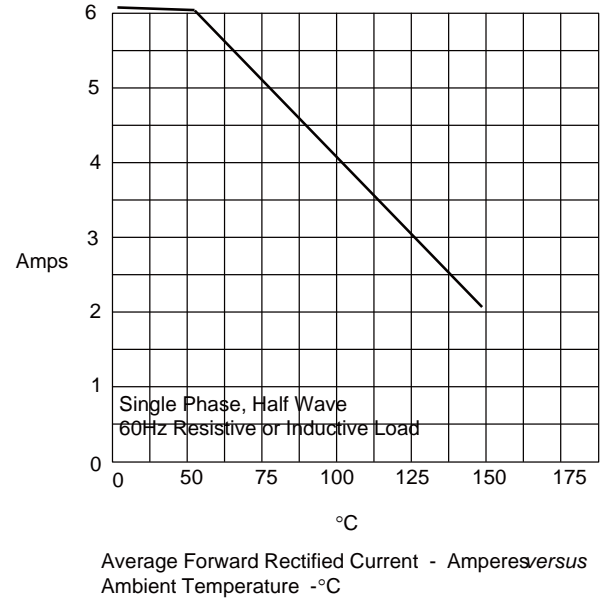


Figure 3
Peak Forward Surge Current

