

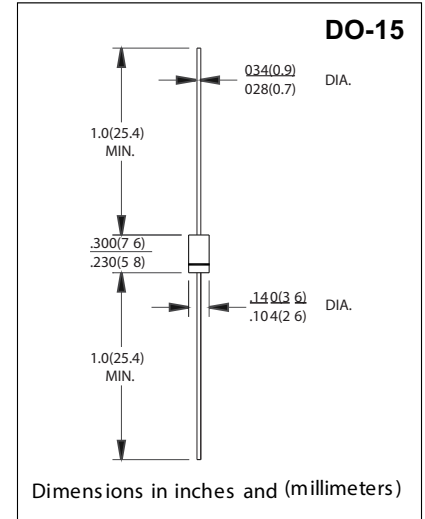
ULTRA FAST RECTIFIER

FEATURES

- High Performance & Reliability best suited for Automotive application
- Low forward voltage drop
- High current capability
- High reliability
- Glass Passivated Chip junction
- High surge current capability Lead (Pb)-free component
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- High temperature soldering guaranteed:2600C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plastic axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.012ounce, 0.33 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

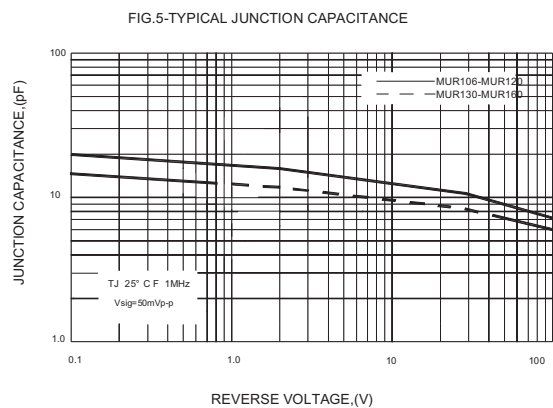
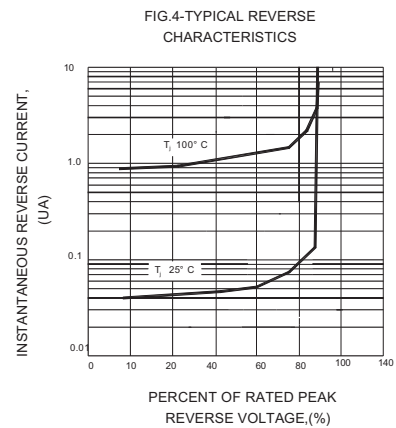
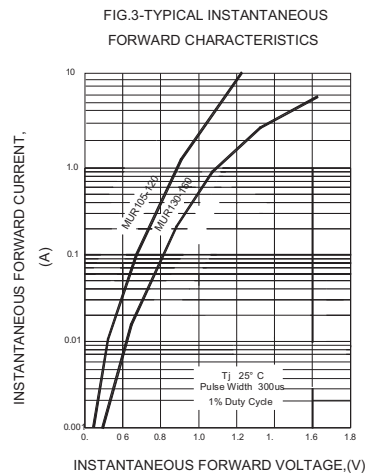
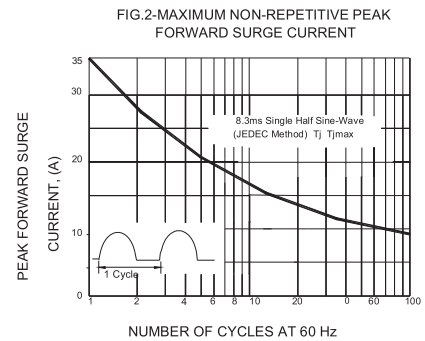
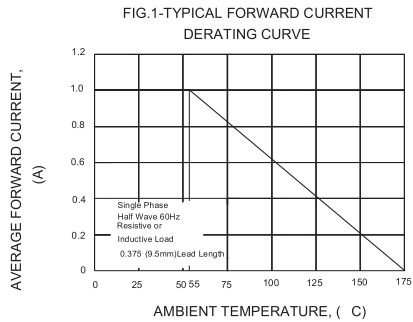
- Rating at 25°C ambient temperature unless otherwise specified, Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER	Symbols	MUR 105	MUR 110	MUR 115	MUR 120	MUR 130	MUR 140	MUR 150	MUR 160	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	500	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length @TA=550C	$I_{(AV)}$	1.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35								Amps
Maximum Instantaneous Forward Voltage at 1.0A	V_F	0.9				1.25				Volts
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R					5.0 100				μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	25				50				ns
Typical Junction Capacitance (Note 2)	C_J	15				10				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	70								$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-65 to +175								$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 to +175								$^{\circ}C$

- Note:**
1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$.
 2. Measured at 1 MHz and applied reverse voltage of 4.0 Volts.
 3. Mount on 5mmX5mm Cu-Pad on PCB.

ULTRA FAST RECTIFIER

RATINGS AND CHARACTERISTIC CURVES MUR105 - MUR160



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.