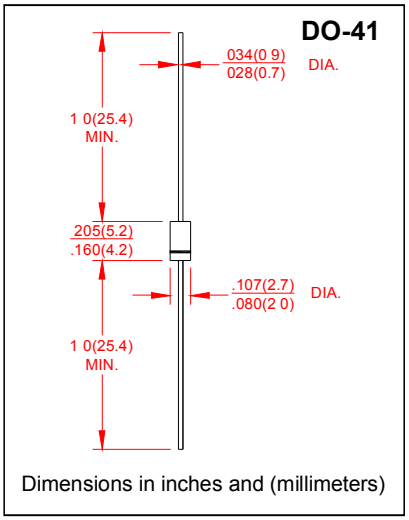
SUPER FAST RECTIFIER

MUR105 - MUR160

Reverse Voltage: 50 to 600 V
Forward Current: 1 A

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- 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



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC DO-41 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 CHARCTERISTICS

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%.

	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 Curr-ent 0.375" (9.5mm) Lead Length @T_A=55°C	$I_{(AV)}$	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 T_A=25℃ / T_A =100℃	I_R	5.0 100								μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	25				50				ns
Typical Junction Capacitance (Note 2)	C_J	30				15				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	70								°C/W
Operating Junction Temperature Range	T_J	-65 to +175								°C
Storage Temperature Range	T_{STG}	-65 to +175								°C

Note: 1. Reverse Recovery Test Conditions: I_F0.5A, 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.

Email: Sales@micindia.com Website: www.micindia.com

SUPER FAST RECTIFIER

MUR105 - MUR160

Reverse Voltage: 50 to 600 V
Forward Current: 1 A

RATINGS AND CHARACTERISTIC CURVES MUR105 - MUR160

FIG.1-MAXIMUM AVERAGE FORWARD CURRENT DERATING

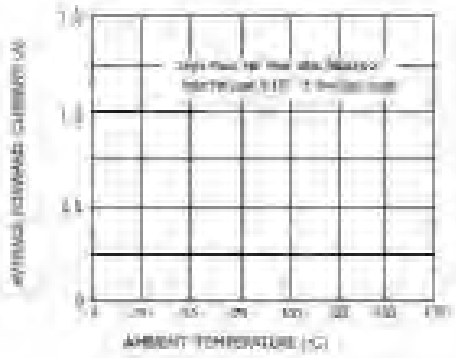


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

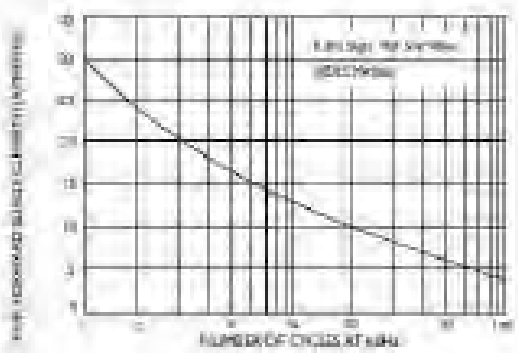


FIG.3-TYPICAL FORWARD CHARACTERISTICS

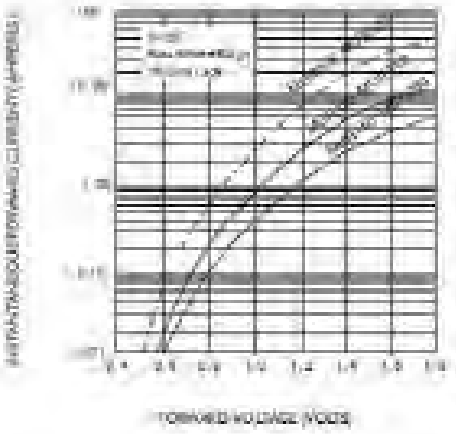


FIG.4-TYPICAL REVERSE CHARACTERISTICS

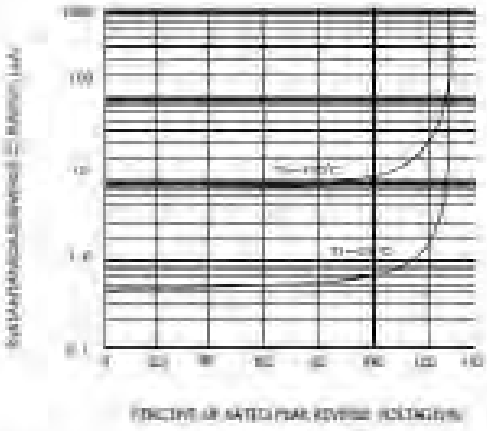
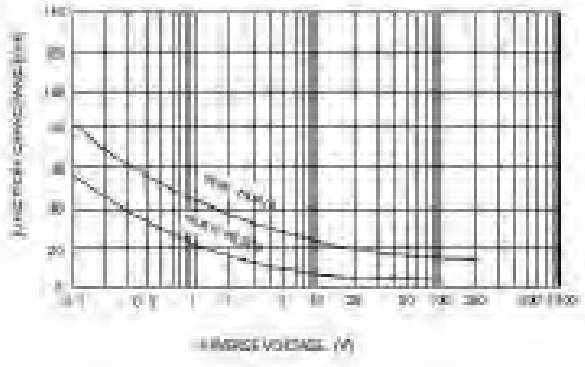


FIG.5-TYPICAL JUNCTION CAPACITANCE



Email: Sales@micindia.com Website: www.micindia.com