

MUR640AX ULTRAFAST RECTIFIERS

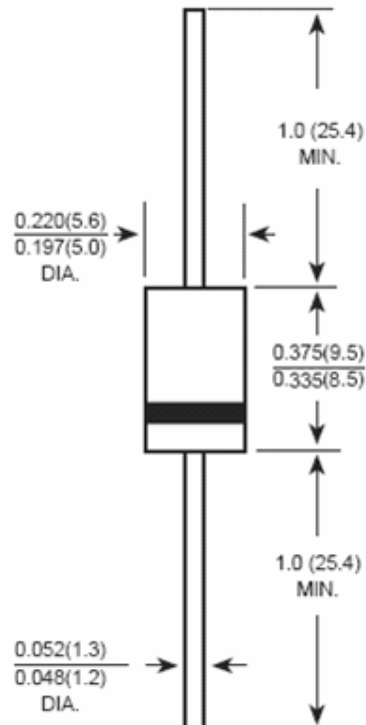
Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Low forward voltage drop
- High current capability
- High reliability
- High Surge Current Capability
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

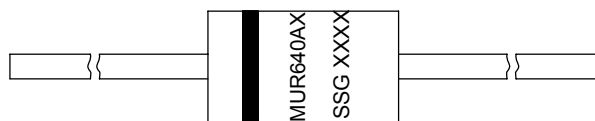
Mechanical Dimensions: In Inches / mm



DO-201AD



Marking Diagram:



Where XXXXX is YYWWL

- MUR = Device Type
- 6 = Forward Current (6A)
- 40 = Reverse Voltage (400V)
- AX = Configuration
- SSG = SSG
- YY = Year
- WW = Week
- L = Lot Number

Cautions : Molding resin
Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR640AX	DO-201AD (Pb-Free)	1250pcs / tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	MUR640AX	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	400	V
Average Rectified Output Current @ $T_A = 105^{\circ}\text{C}$	I_o	6.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150	A
Forward Voltage (per element) @ $I_F = 6.0\text{A}$	V_{FM}	1.3	V
Peak Reverse Current @ $T_A = 25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^{\circ}\text{C}$	I_{RM}	5.0 100	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	50	ns
Typical Junction Capacitance (Note 2)	C_j	60	pF
Max. Voltage Rate of Change	dv/dt	10,000	V/ μs
Typical Thermal Resistance Junction to Ambient (Note 3)	$R_{\theta JA}$	25	K/W
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$
Max. Junction Temperature	T_J	-55 to +150	$^{\circ}\text{C}$
Approximate Weight	wt	1.02	g
Case Style	DO-201AD		

Note: 1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $IRR=0.25\text{A}$.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mount on Cu-Pad Size 16mm×16mm on P.C.B.



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