



MUR620AX ULTRAFAST RECTIFIERS

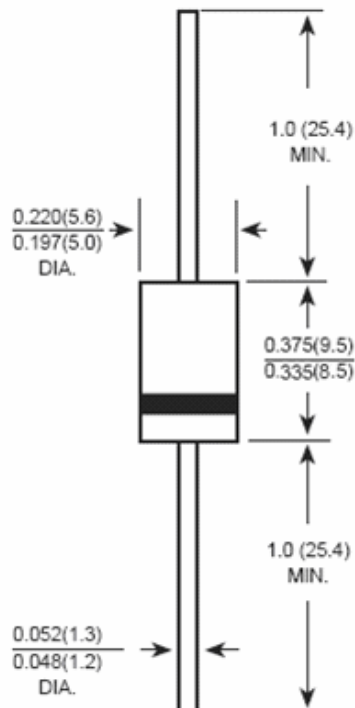
Applications:

- 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)
- 20 = Reverse Voltage (200V)
- AX = Configuration
- SSG = SSG
- YY = Year
- WW = Week
- L = Lot Number

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

Ordering Information:

Device	Package	Shipping
MUR620AX	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.



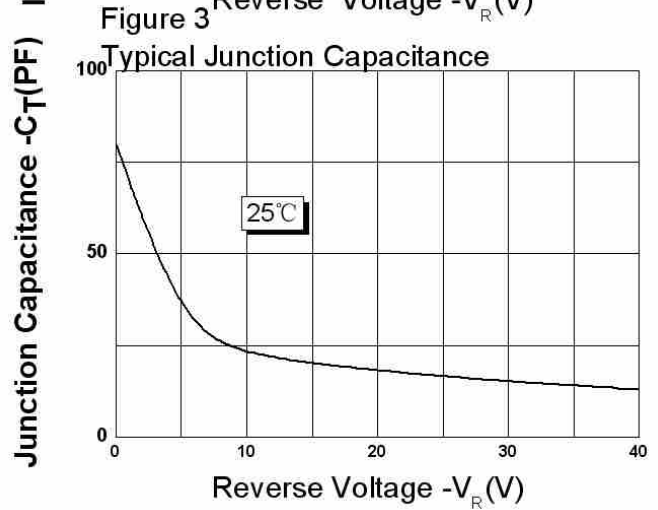
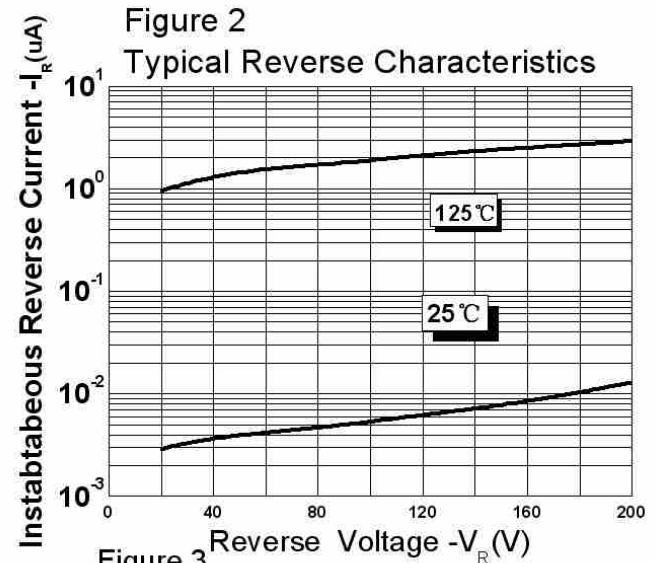
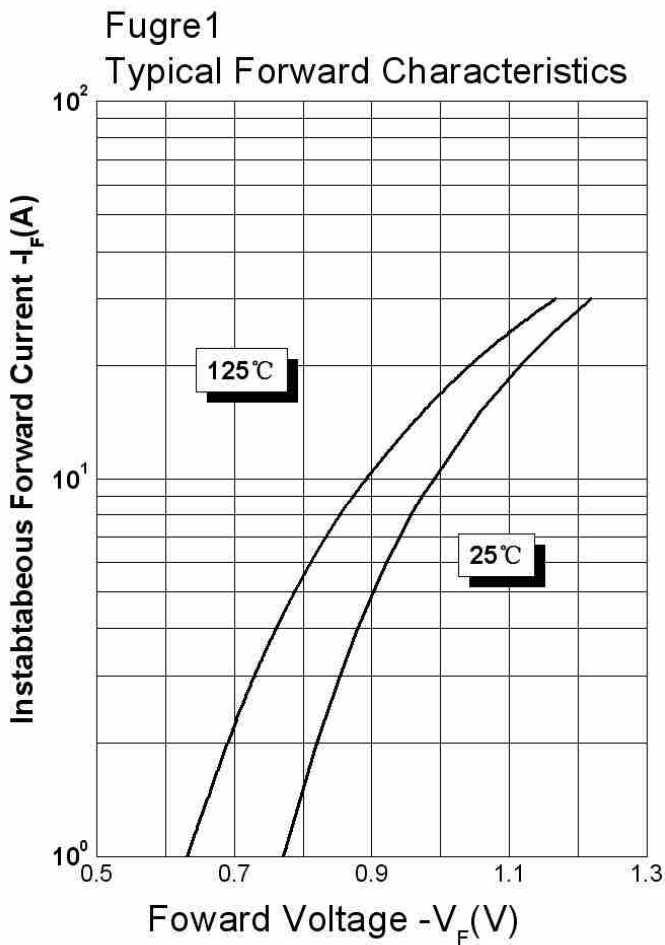
Maximum Ratings and Electrical Characteristics

@T_A=25°C unless otherwise specified

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

Characteristic	Symbol	MUR620AX	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
Average Rectified Output Current @T _A = 105°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}	80	A
Forward Voltage (per element) @I _F = 6.0A, T _J =25°C	V _{FM1}	0.975	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R	10 500	μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35	ns
Typical Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}	25	K/W
Typical Junction Capacitance (Note 3)	C _J	80	pF
Max. Storage Temperature	T _{STG}	-55 to +150	°C
Max. Junction Temperature	T _J	-55 to +150	°C
Approximate Weight	wt	1.02	g
Case Style	DO-201AD		

- Note: 1. Measured with I_F=0.5A; I_R=1.0A; I_{RR}=0.25A.
2. Mount on Cu-Pad Size 16mm×16mm on P.C.B.
3. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C



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