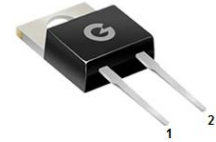
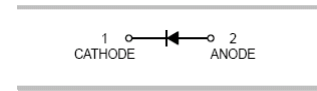


Features

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability

HF



TO-220AC

Mechanical Data

- Case: TO-220AC
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
MUR1020	TO-220AC	50pcs / Tube	MUR1020
MUR1040	TO-220AC	50pcs / Tube	MUR1040
MUR1060	TO-220AC	50pcs / Tube	MUR1060

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	MUR1020	MUR1040	MUR1060	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	200	400	600	V
RMS Reverse Voltage	V _{RMS}	140	280	420	V
DC Blocking Voltage	V _{DC}	200	400	600	V
Maximum Average Forward Output Current	I _{F(AV)}	10			A
Peak Forward Surge Current (8.3ms single half sine-wave)	I _{FSM}	100			A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance (Junction-to-Ambient) *1	R _{θJA}	12	°C/W
Thermal Resistance (Junction-to-Case) *1	R _{θJC}	7	°C/W
Thermal Resistance (Junction-to-Lead) *1	R _{θJL}	4	°C/W
Operating Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Note 1: The data tested by surface mounted on a 4.15cm * 5.4cm * 0.25cm aluminum heatsink

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Condition	MUR1020	MUR1040	MUR1060	Unit
			Max.			
V_F	Forward Voltage	$I_F = 10\text{A}$	0.98	1.3	1.5	V
I_R	Maximum Peak Reverse Current	$V_R = V_{RRM}, T_A = 25^\circ\text{C}$	5	10	10	μA
		$V_R = V_{RRM}, T_A = 150^\circ\text{C}$	250	500	500	μA
t_{rr}	Reverse Recovery Time	$I_F = 0.5\text{A}, I_{rr} = 0.25\text{A}, I_R = 1\text{A}$	25	50	50	ns

Ratings and Characteristics Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

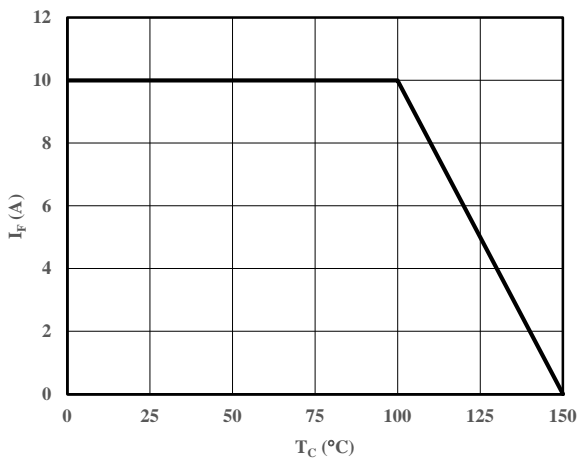


Fig 1 Current Derating Curve

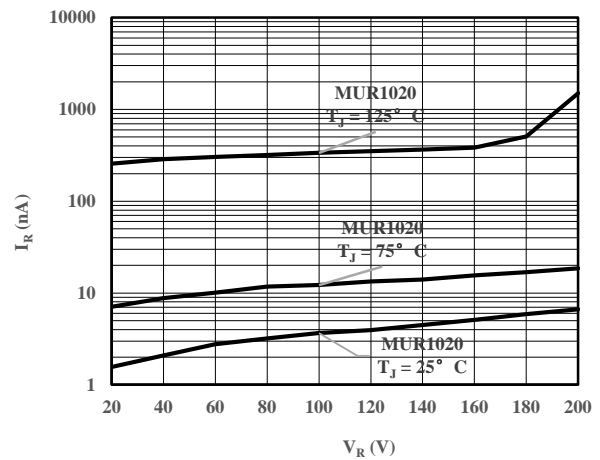


Fig 2 Typical Reverse Characteristic

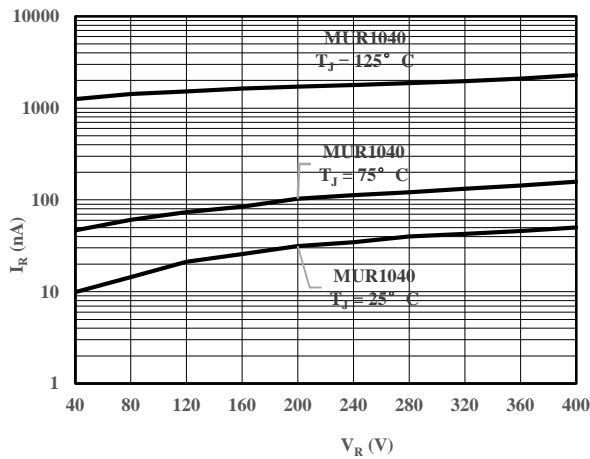


Fig 3 Typical Reverse Characteristic

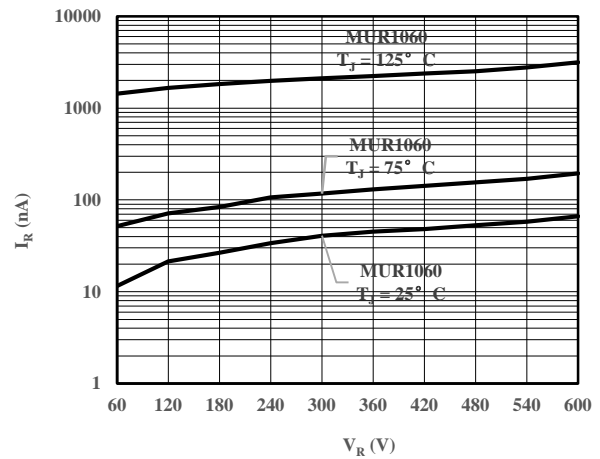


Fig 4 Typical Reverse Characteristic

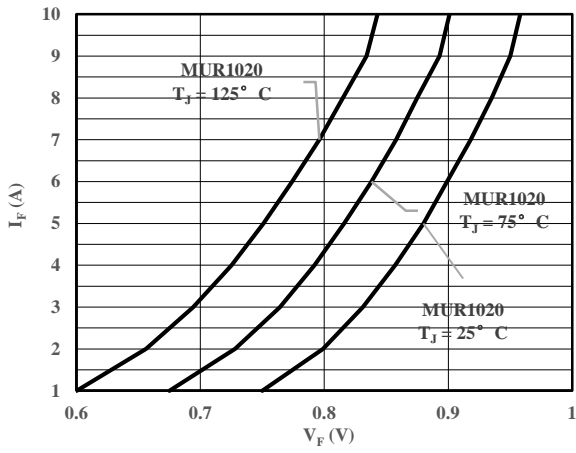


Fig 5 Typical Forward Characteristic

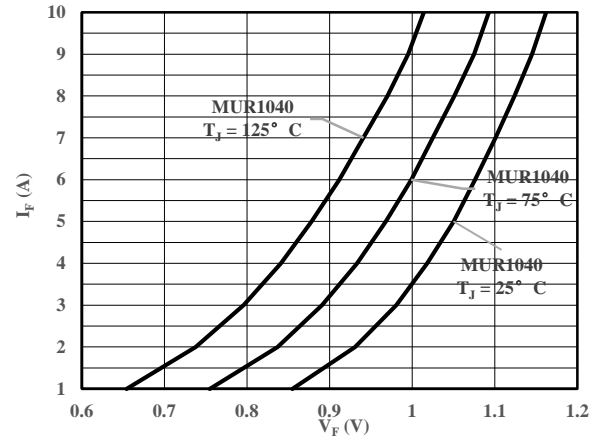


Fig 6 Typical Forward Characteristic

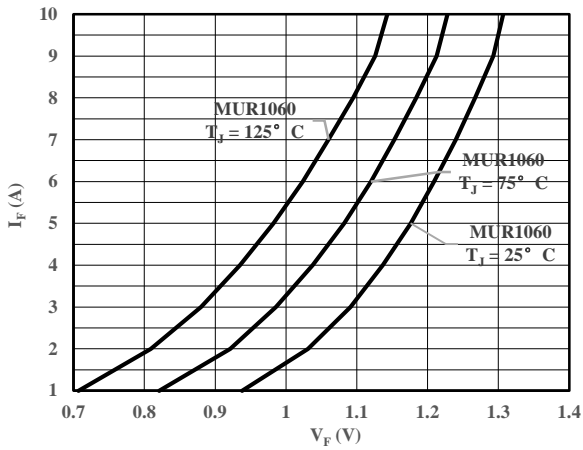
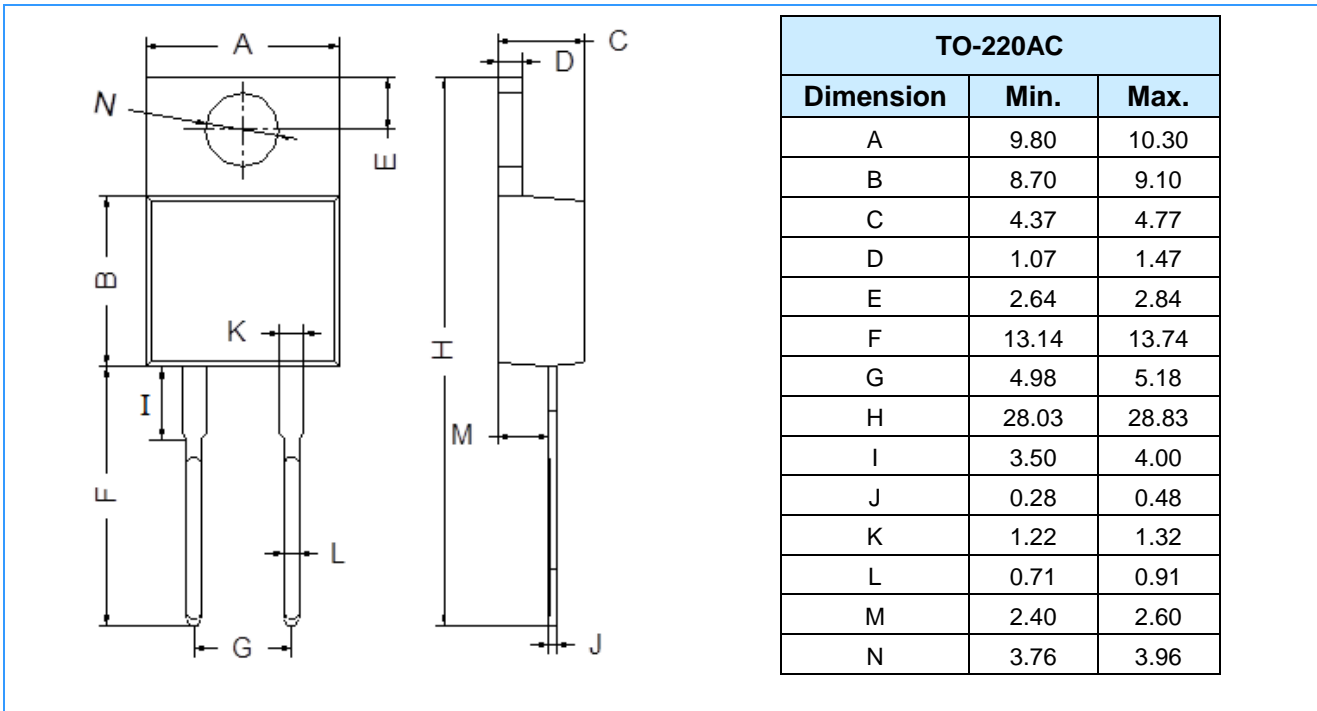


Fig 7 Typical Forward Characteristic

Package Outline Dimensions (Unit: mm)



Important Notice

Changzhou Galaxy Century Microelectronics (GME) reserves the right to make changes without further notice to any product information (copyrighted) herein to make corrections, modifications, improvements, or other changes. GME does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others.