



GMA01, 01U

Epitaxial Planar Silicon Diode
**Very High-Speed Switching,
 Bias Stabilizing Applications**

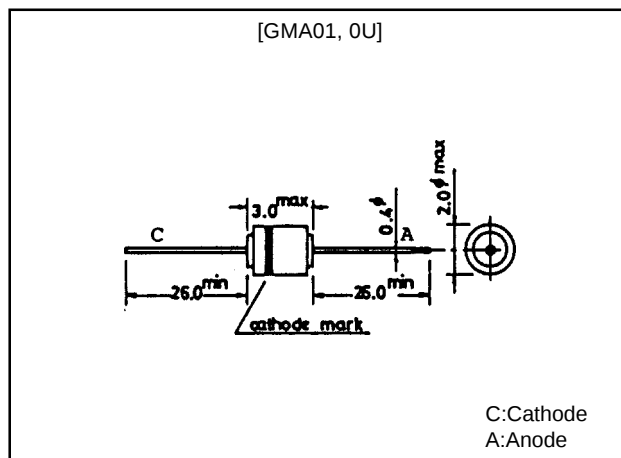
Features

- Glass sleeve structure.
- Allowable power dissipation : $P=300\text{mW}$ max.
- Interterminal capacitance : $c=3.0\text{pF}$ max.
- Reverse recovery time : $t_{rr}=4.0\text{ns}$ max.
- Small size, being about half of DO-35 package heretofore in use.

Package Dimensions

unit:mm

1114



Specifications

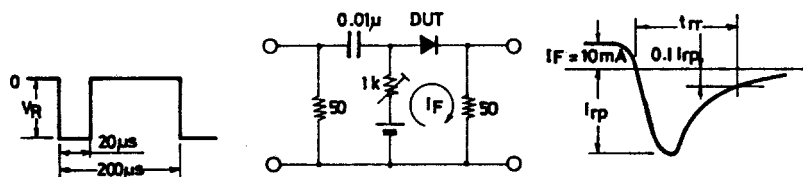
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

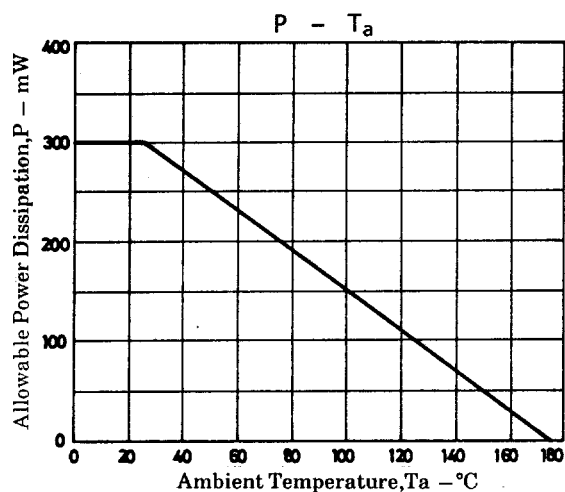
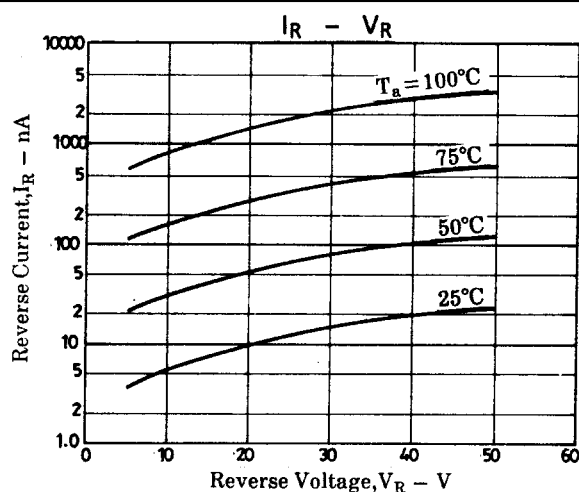
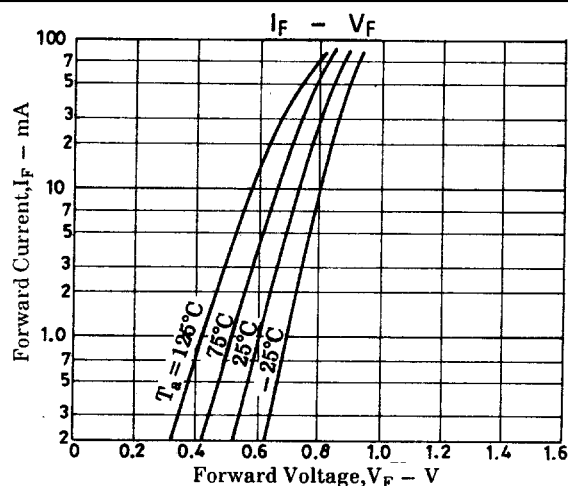
Parameter	Symbol	Conditions	GMA01	GMA01U	Unit
Peak Reverse Voltage	V_{RM}		60	105	V
Reverse Voltage	V_R		55	100	V
Peak Forward Current	I_{FM}		→	360	mA
Average Rectified Current	I_O		→	120	mA
Surge Forward Current	I_{FSM}	1 s pulse	→	500	mA
Allowable Power Dissipation	P		→	300	mW
Junction Temperature	T_j		→	175	$^\circ\text{C}$
Storage Temperature	T_{stg}		→	-65 to +175	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=1.5\text{mA}$	0.55		0.68	V
Reverse Current	I_R	$V_R=55$ (GMA01)			0.5	μA
		$V_R=75$ (GMA01U)			0.5	μA
		$V_R=100\text{V}$ (GMA01U)			5	μA
Interterminal Capacitance	C	$V_R=0$, $f=1\text{MHz}$			3.0	pF
Reverse Recovery Time	t_{rr}	$V_R=6\text{V}$, $I_F=10\text{mA}$, $R_L=50\Omega$			4.0	ns

Reverse Recovery Time Test Circuit

Unit (resistance : Ω , capacitance : F)



■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

■ Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.

■ Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of June, 1998. Specifications and information herein are subject to change without notice.