

SANYO**GMB01, 01U**

Epitaxial Planar Type

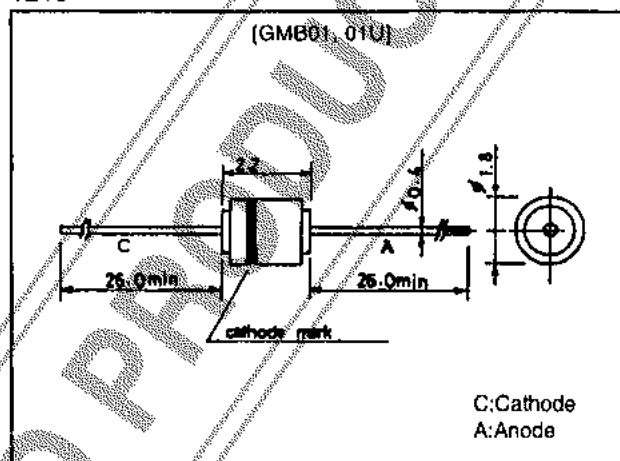
Very High-Speed Switching Diode**Features**

- Glass sleeve structure.
- Allowable power dissipation : $P=250\text{mW}$ max.
- Interterminal capacitance : $c=3.0\text{pF}$ max.
- Reverse recovery time : $t_{rr}=4.0\text{ns}$ max.
- Meets the requirements for high-speed automatic mounter (DO-34 package).

Package Dimensions

unit:mm

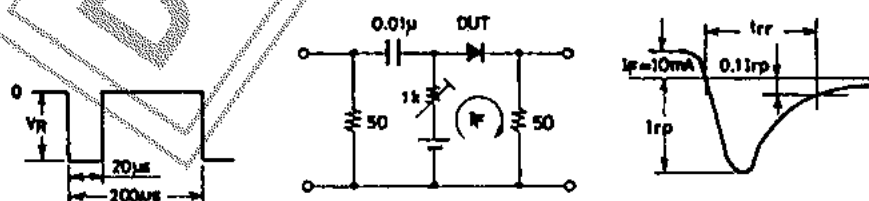
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**Specifications**Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

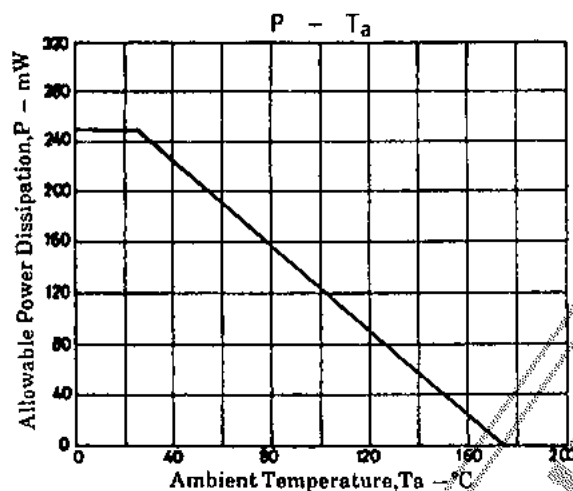
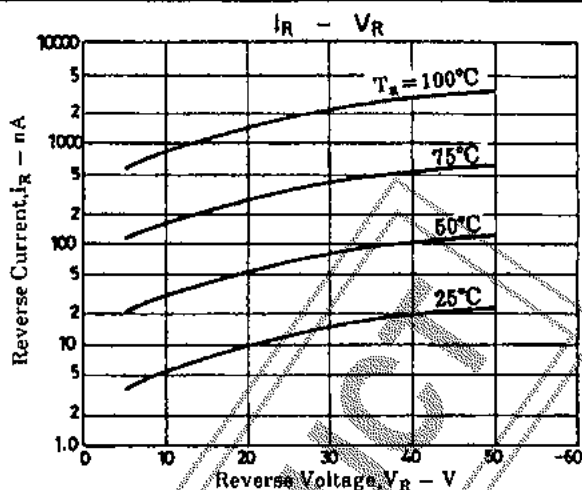
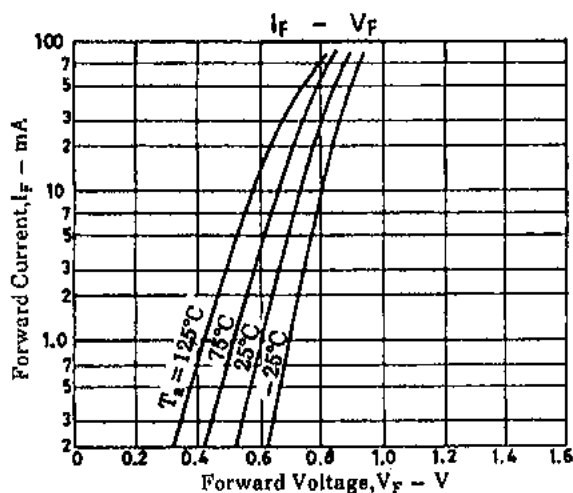
Parameter	Symbol	Conditions	GMB01	GMB01U	Unit
Peak Reverse Voltage	V_{RM}		60	105	V
Reverse Voltage	V_R		55	100	V
Peak Forward Current	I_{FM}		→	360	mA
Average Rectified Current	I_O		→	120	mA
Surge Forward Current	I_{FSM}	1 s pulse	→	600	mA
Allowable Power Dissipation	P		→	250	mW
Junction Temperature	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_{F1}	$I_F=1.5\text{mA}$	0.55		0.68	V
	V_{F2}	$I_F=100\text{mA}$			1.2	V
Reverse Current	I_R	$V_R=55$ (GMB01)			0.5	μA
		$V_R=75$ (GMB01U)			0.5	μA
		$V_R=100\text{V}$ (GMB01U)			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 CircuitUnit (resistance : Ω , capacitance : F)

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