

SANYO

GMB01, 01U

Epitaxial Planar Type

Very High-Speed Switching Diode

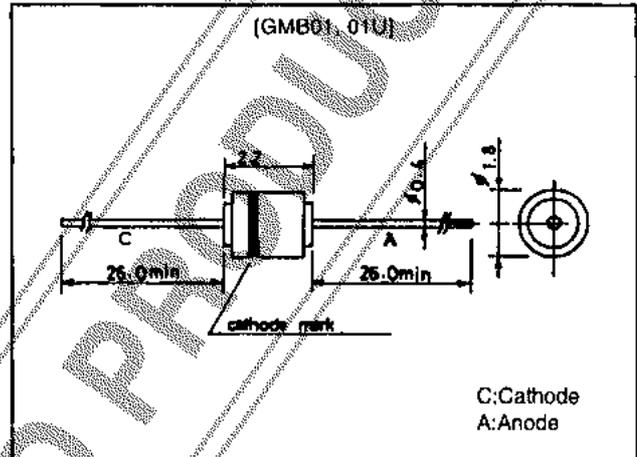
Features

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

Package Dimensions

unit:mm

1215



Specifications

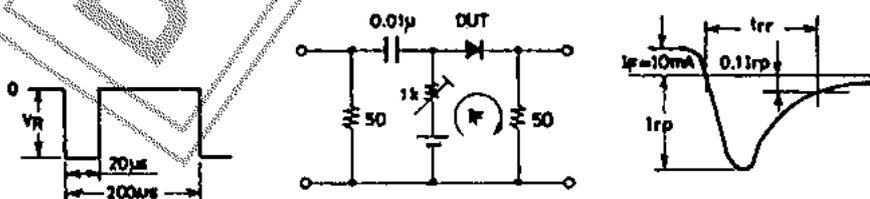
Absolute Maximum Ratings at Ta = 25°C

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	Tj		→	175	°C
Storage Temperature	Tstg		→	-65 to +175	°C

Electrical Characteristics at Ta = 25°C

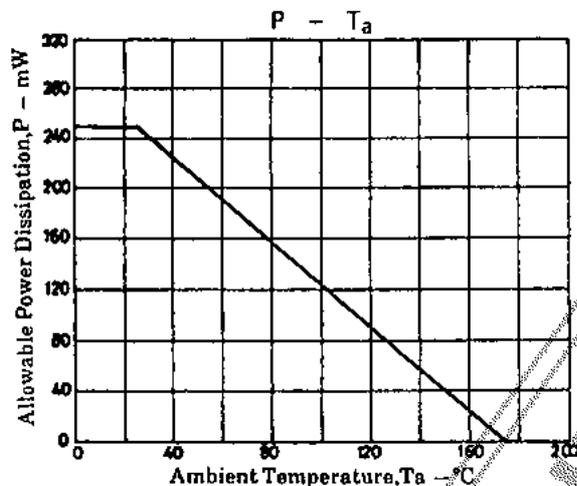
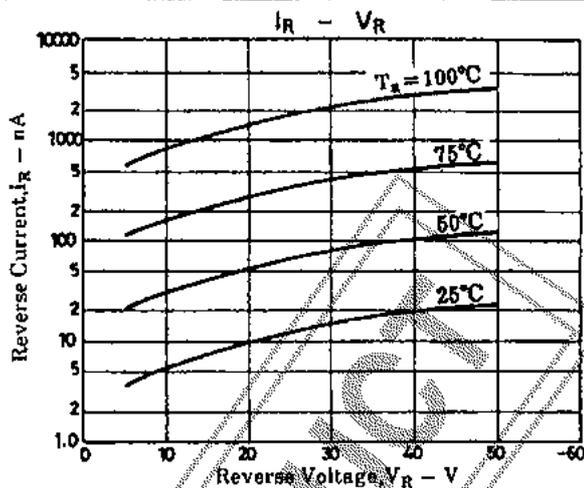
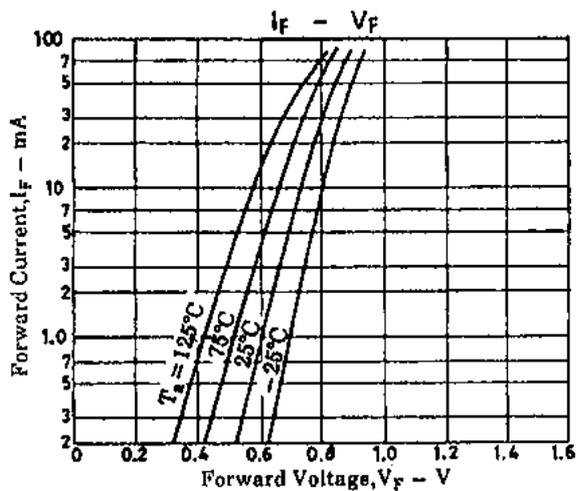
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_{F1}	$I_F=1.5mA$	0.55		0.68	V
	V_{F2}	$I_F=100mA$			1.2	V
Reverse Current	I_R	$V_R=55$ (GMB01)			0.5	μA
		$V_R=75$ (GMB01U)			0.5	μA
		$V_R=100V$ (GMB01U)			5	μA
Interterminal Capacitance	C	$V_R=0, f=1MHz$			3.0	pF
Reverse Recovery Time	t_{rr}	$V_R=6V, I_F=10mA, R_L=50\Omega$			4.0	ns

Reverse Recovery Time Test Circuit



Unit (resistance : Ω , capacitance : F)

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