

GMB01, 01U

Epitaxial Planar Type

Very High-Speed Switching Diode

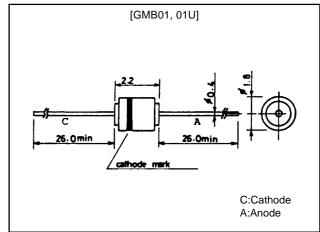
Features

- · Glass sleeve structure.
- · Allowable power dissipation : P=250mW max.
- · Interterminal capacitacne: 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

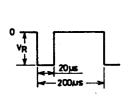
Absolute Maximum Ratings at Ta = 25°C

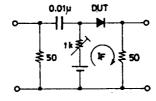
Parameter	Symbol	Conditions	GMB01	GMB01U	Unit
Peak Reverse Voltage	V _{RM}		60	105	V
Reverse Voltage	V _R		55	100	V
Peak Forward Current	I _{FM}		\rightarrow	360	mA
Average Rectified Current	Io		\rightarrow	120	mA
Surge Forward Current	I _{FSM}	1 s pulse	\rightarrow	600	mA
Allowable Power Dissipation	Р		\rightarrow	250	mW
Junction Temperature	Tj		\rightarrow	175	°C
Storage Temperature	Tstg		\rightarrow	-65 to +175	°C

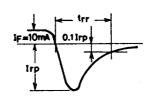
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
i diameter			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	С	V _R =0, f=1MHz			3.0	pF
Reverse Recovery Tlme	t _{rr}	$V_R=6V$, $I_F=10$ mA, $R_L=50\Omega$			4.0	ns

Reverse Recovery Time Test Circuit

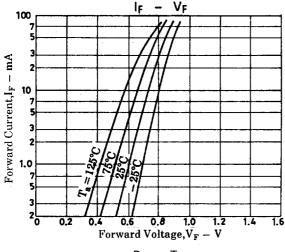


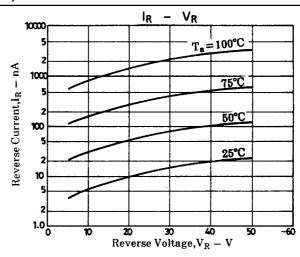


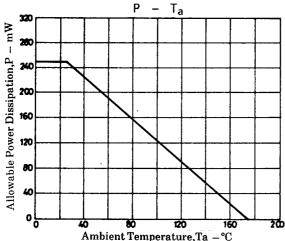


Unit (resistance : Ω , capacitance : F)

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