

**FUKUCOM COMPANY LTD.****福 靈 有 限 公 司**FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

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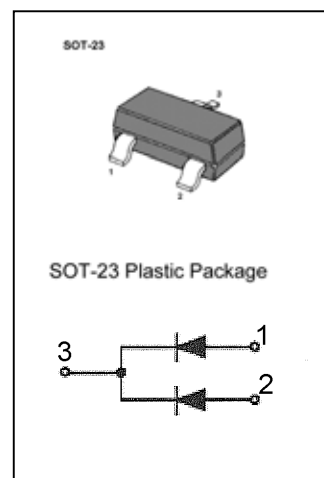
Dual Switching Diode

*Fast Switching Speed

*High Conductance

Absolute Maximum Ratings at Ta=25°C unless otherwise note

Symbol	Characteristic	Value	Units
V _{RM}	Non-Repetitive Peak Reverse	100	V
V _{RRM}	Peak Repetitive Reverse Voltage	70	V
V _{RWM}	Working Peak Reverse Voltage DC		
V _R	Blocking Voltage		
V _{R(RMS)}	RMS Reverse Voltage	49	V
I _{FM}	Peak Forward Surge Current	500	mA
I _F	Peak Forward Current	200	mA
P _D	Power Dissipation (Note) @25°C Derate above 25°C	350	mW
		2.8	mW/°C
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65 ~ 150	°C



Electrical Characteristics at Ta=25°C

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
V _F	Forward Voltage	I _F =1.0mA			715	mV
		I _F =10mA			855	mV
		I _F =50mA			1.0	V
		I _F =150mA			1.25	V
I _R	Reverse Voltage Leakage Current	V _R =70V			2.5	uA
		V _R =70V T _j =150°C			100	
		V _R =25V T _j =150°C			60	
C _j	Capacitance	V _R =0 f=1.0MHz			1.5	pF
T _{rr}	Reverse Recovery Time	I _F =10mA to I _{RR} =1mA V _R =6V; R _L =100Ω			6	ns

Marking: A4

Note: Diode on Ceramic Substrate 10mm x 8.0mm 0.7mm

**FM**



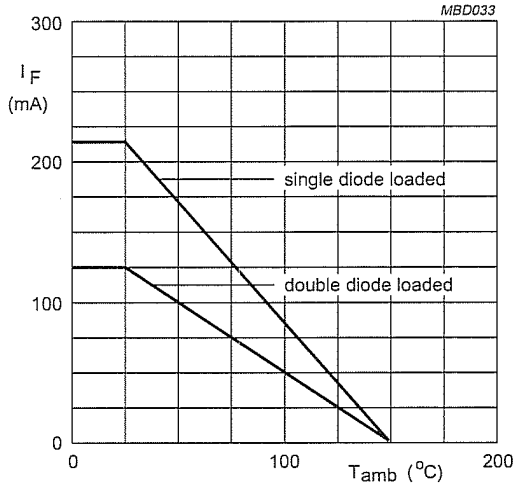
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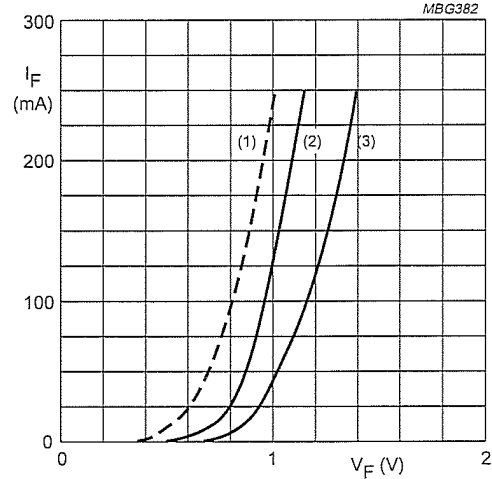
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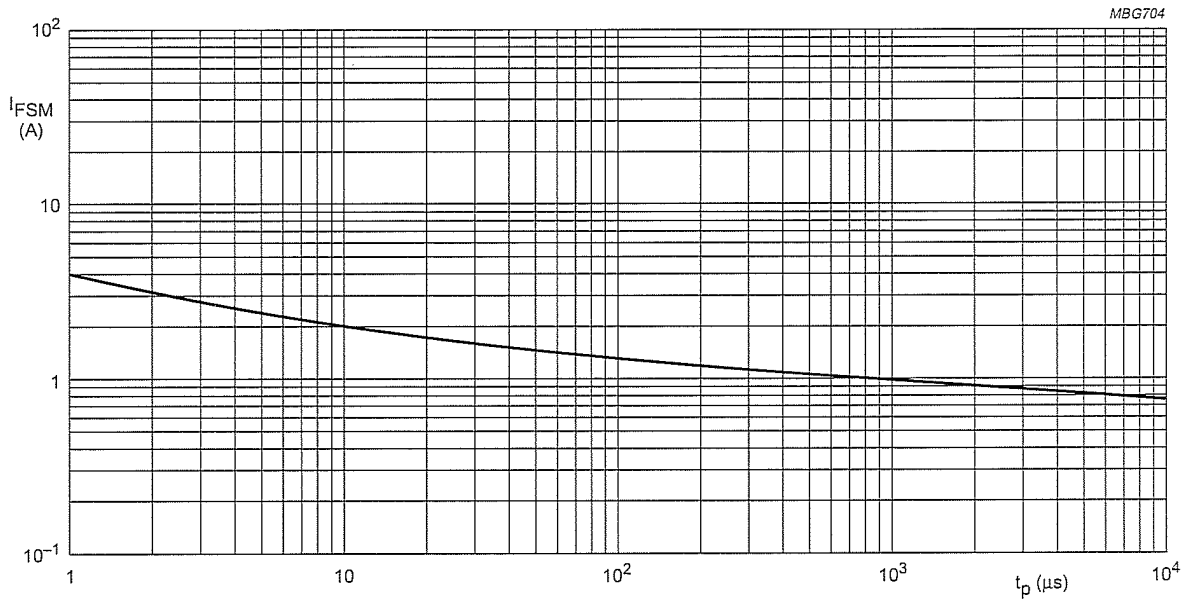
Device mounted on an FR4 printed-circuit board.

Fig.2 Maximum permissible continuous forward current as a function of ambient temperature.



- (1) $T_j = 150$ °C; typical values.
- (2) $T_j = 25$ °C; typical values.
- (3) $T_j = 25$ °C; maximum values.

Fig.3 Forward current as a function of forward voltage.



Based on square wave currents.
 $T_j = 25$ °C prior to surge.

Fig.4 Maximum permissible non-repetitive peak forward current as a function of pulse duration.





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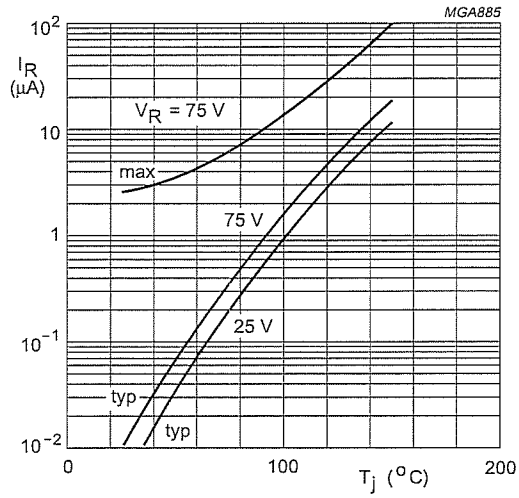
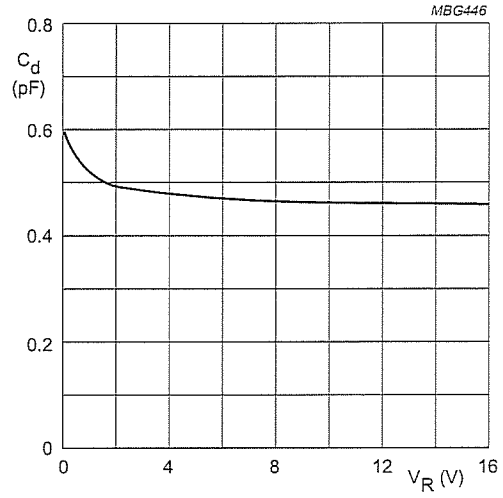


Fig.5 Reverse current as a function of junction temperature.



$f = 1\text{ MHz}; T_j = 25\text{ }^{\circ}\text{C}.$

Fig.6 Diode capacitance as a function of reverse voltage; typical values.



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