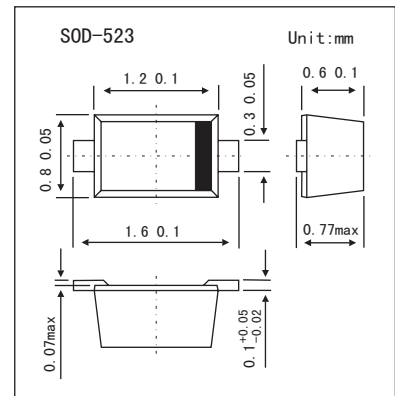


KAS516 (BAS516)

■ Features

- Small Surface Mounting Type
- High Speed



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	VRRM	85	V
DC Reverse Voltage	VR	75	V
Forward Current	IF	250	mA
Repetitive Peak Forward Current	IFRM	500	mA
Non-Repetitive Peak Forward Current	IFSM	0.5	A
Total Power Dissipation	Ptot	500	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-65 to +150	°C

■ Electrical Characteristics Ta = 25°C

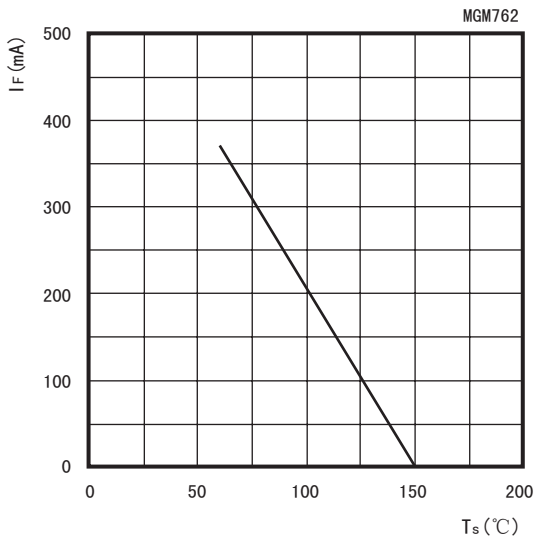
Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Forward Voltage	VF	IF = 1mA			0.715	V
		IF = 10mA			0.855	
		IF = 50mA			1.0	
		IF = 150mA			1.25	
Reverse Current	IR	VR = 25V			0.03	μ A
		VR = 75V			1.0	
Capacitance Between Terminals	CT	VR = 0V, f = 1.0MHz			1.0	pF
Reverse Recovery Time	trr	IF = 10mA, RL = 100 Ω			4.0	ns

■ Marking

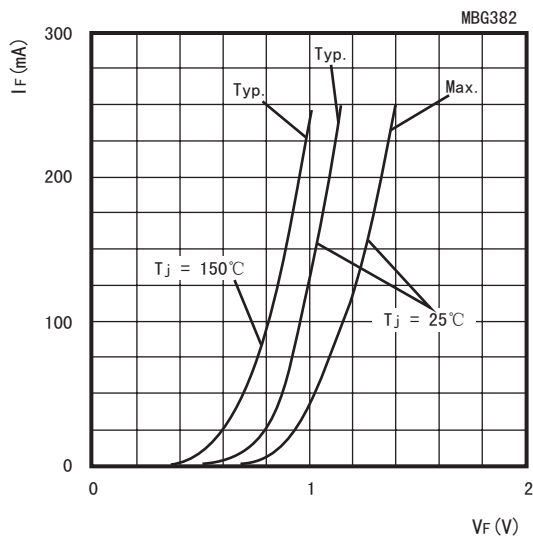
Marking	6
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KAS516 (BAS516)

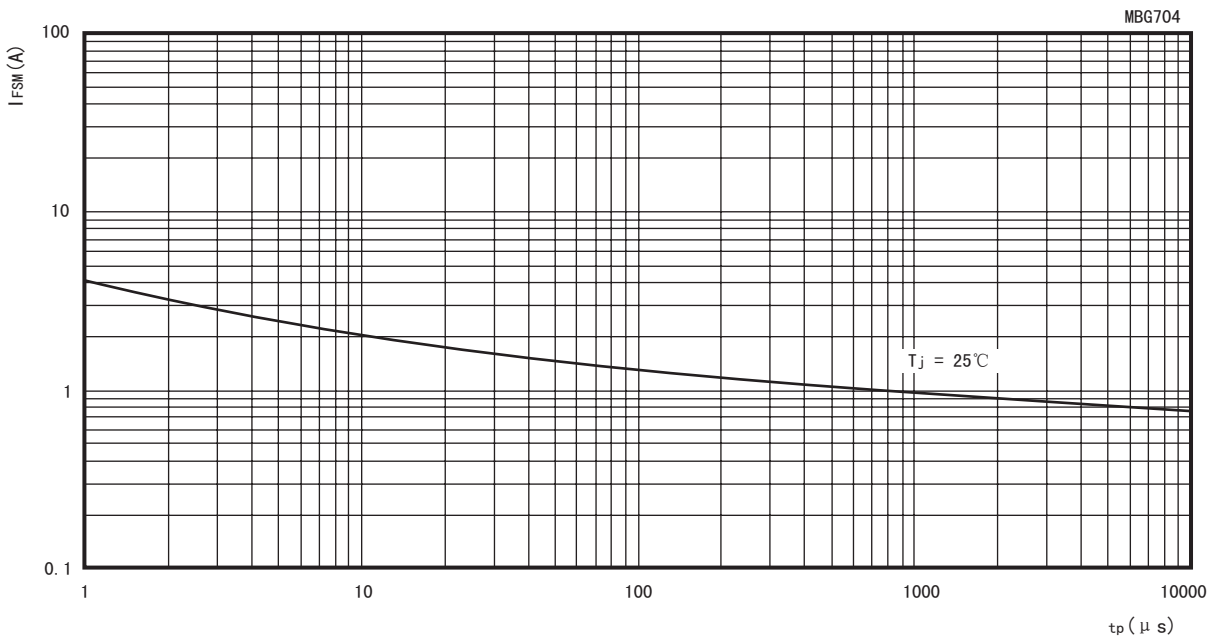
■ Electrical Characteristics Curves



Maximum Permissible Continuous Forward Current As A Function Of Soldering Point Temperature.



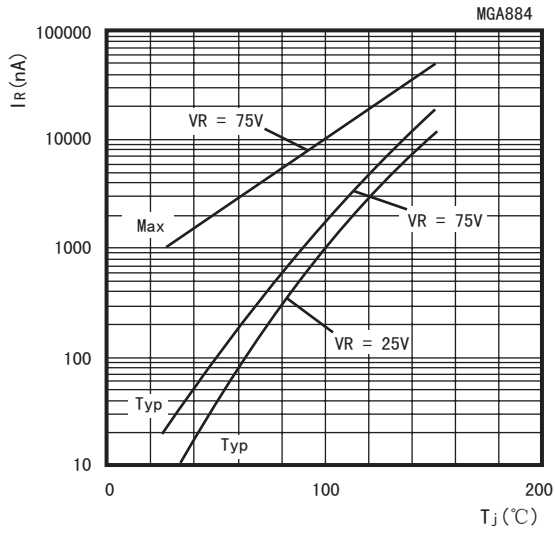
Forward Current As A Function Of Forward Voltage.



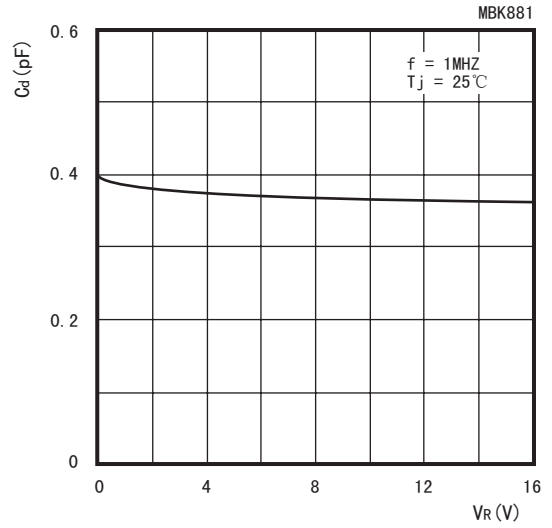
Maximum Permissible Non-repetitive Peak Forward Current As A Function Of Pulse Duration.



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Reverse Current As A Function Of Junction Temperature.



Diode Capacitance As A Function Of Reverse Voltage(Typical Values)