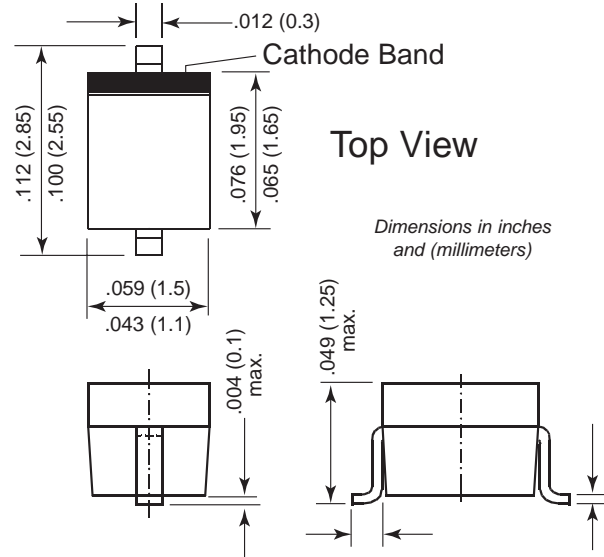


RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

SOD-323(SC-76)



FEATURES

- Very small plastic SMD package
- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 100 V
- Repetitive peak reverse voltage: max. 100 V
- Repetitive peak forward current: max. 500 mA.

MARKING: A6

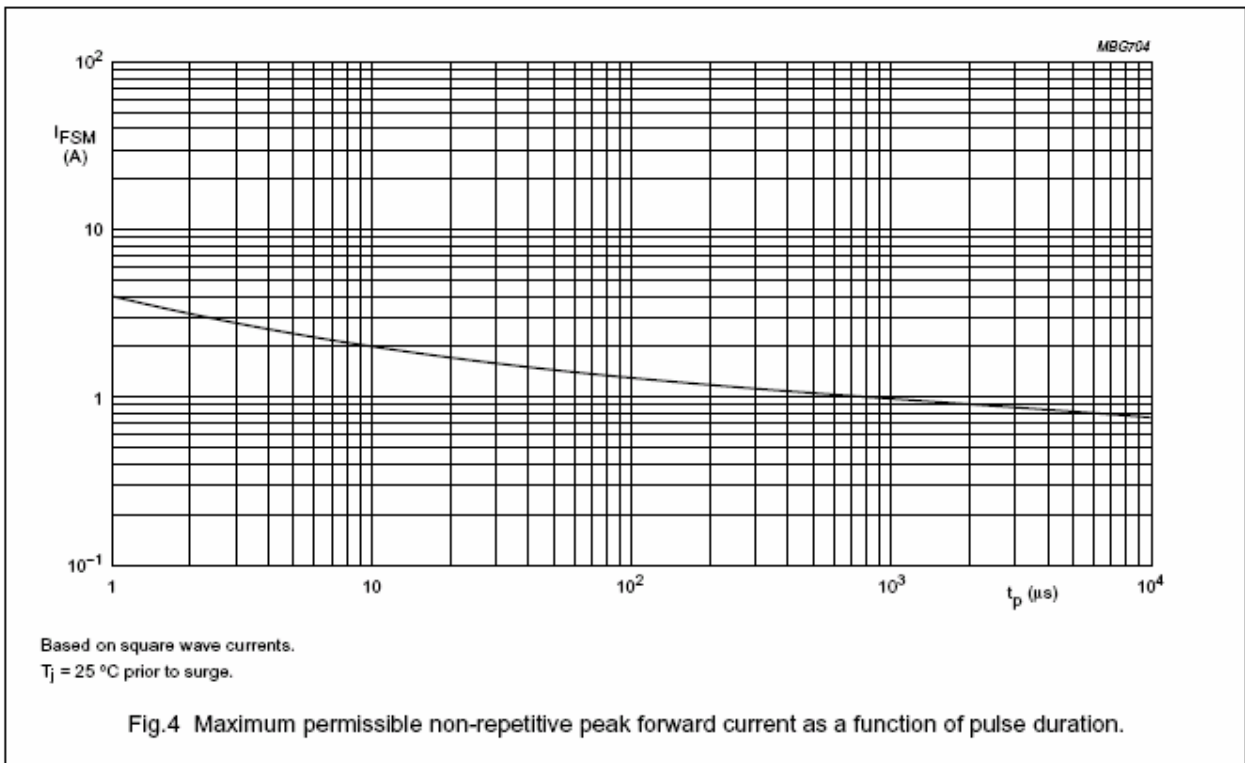
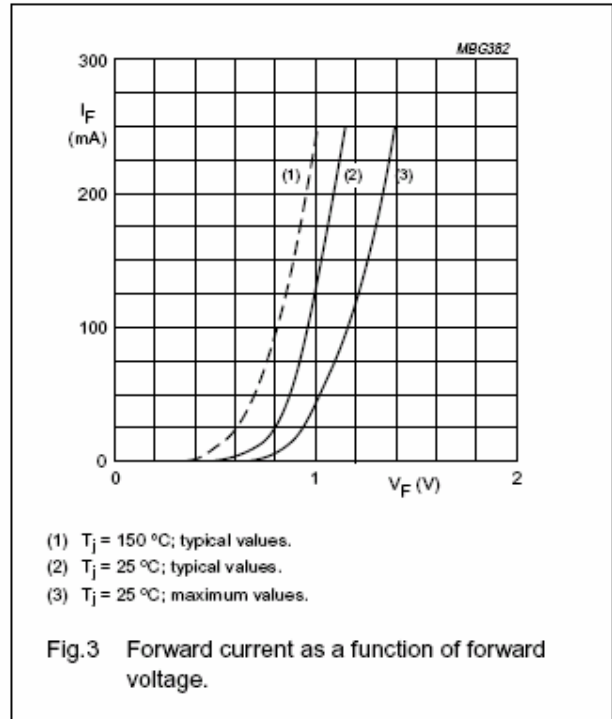
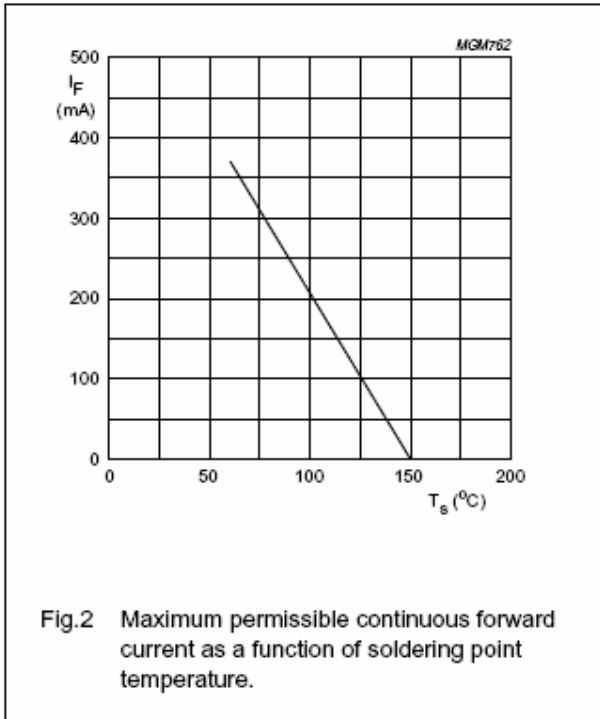
Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter	Symbol	Limits	Unit
DC reverse voltage	V _R	100	V
Forward current	I _F	250	mA
Total Device Dissipation	P _D	400	mW
Junction and storage temperature	T _j , T _{stg}	-65--+150	°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	V _{(BR)R}	100				I _R =100uA
Forward voltage	V _{F1}			715	mV	I _F =1mA
	V _{F2}			855		I _F =10mA
	V _{F3}			1000		I _F =50mA
	V _{F4}			1250		I _F =150mA
Reverse recovery Time	t _{rr}			4	ns	I _F =I _R =10mA, R _L =100Ω
Reverse current	I _{R1}			0.03	μ A	V _R =25V
	I _{R2}			1		V _R =75V
Forward recovery voltage	V _{FR}			1.75	V	I _F =10mA, t _r = 20ns
Diode Capacitance	C _D			1.5	pF	V _R =0V, f=1MHZ

Typical Characteristics



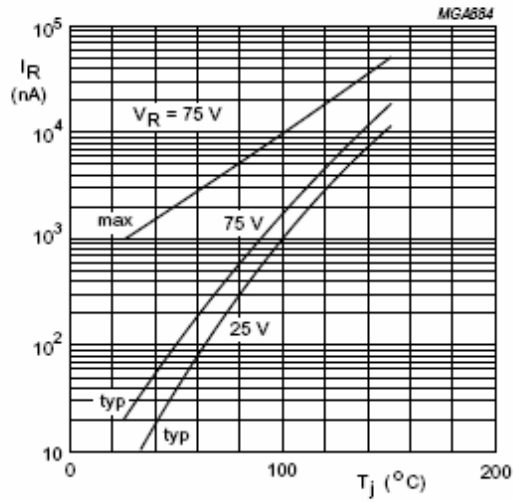
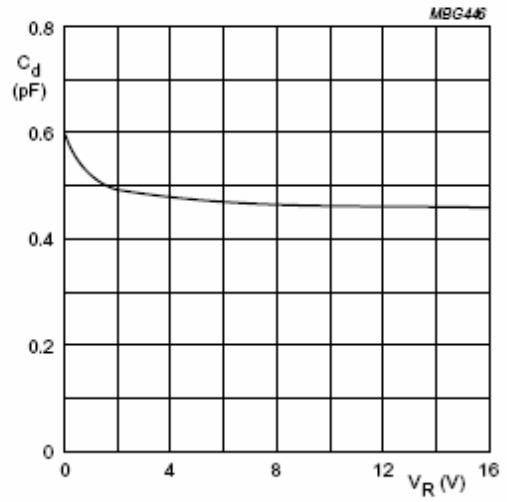


Fig.5 Reverse current as a function of junction temperature.



$f = 1$ MHz; $T_j = 25$ °C.

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