



Micro Commercial Components



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BAS516

Switching Diode

Features

- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
Ultra-Small Surface Mount Package
High Switching Speed
For General Purpose Switching Applications
Marking : 61
Halogen free available upon request by adding suffix "-HF"
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, and Notes. Rows include DC Reverse Voltage, Forward Current, Repetitive Forward Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, Typical Diode Capacitance, Junction temperature, and Reverse Recovery Time.

SOD-523

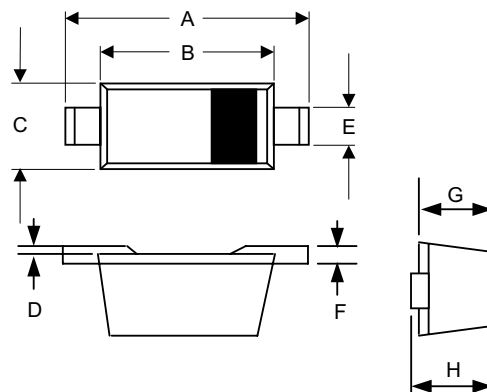
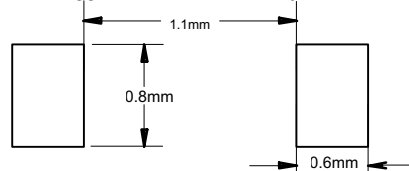


Table titled 'DIMENSIONS' with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A through H correspond to the dimensions in the diagram.

Suggested Solder Pad Layout



# BAS516

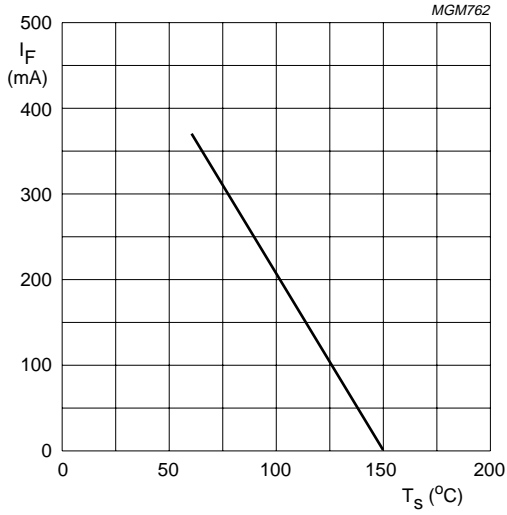
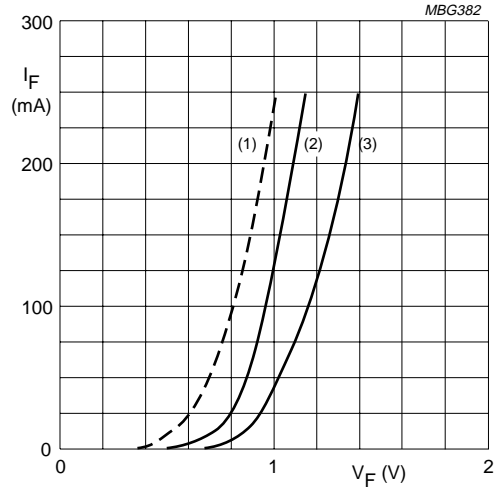
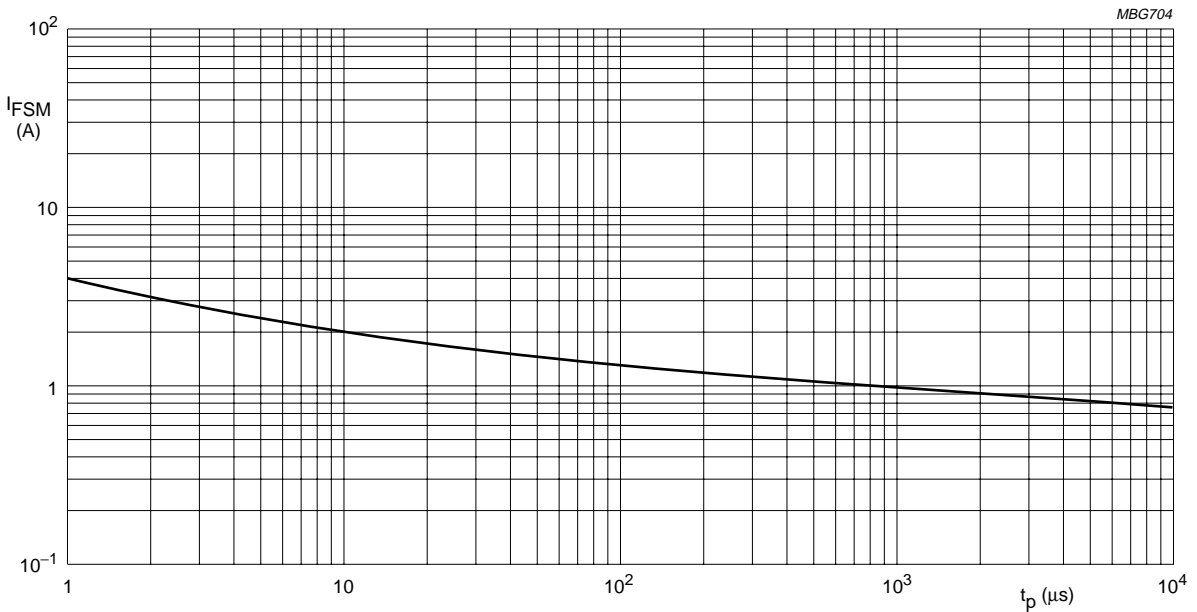


Fig.2 Maximum permissible continuous forward current as a function of soldering point temperature.



- (1)  $T_j = 150^\circ\text{C}$ ; typical values.
- (2)  $T_j = 25^\circ\text{C}$ ; typical values.
- (3)  $T_j = 25^\circ\text{C}$ ; maximum values.

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



Based on square wave currents;  $T_j = 25^\circ\text{C}$  prior to surge.

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



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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