

Pb

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **BAS516**

Features

- Ultra-Small Surface Mount Package
- · High Switching Speed
- For General Purpose Switching Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: 61

Switching Diode

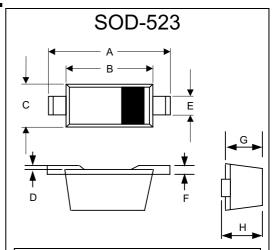
Maximum Ratings

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

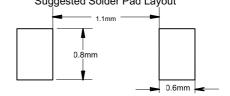
Storage Temperature: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

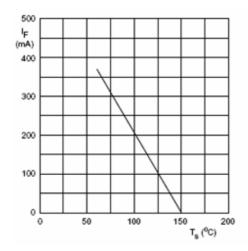
DC Reverse Voltage	V_R	75V	
Forward Current	I _F	250mA	
Peak Forward Surge	I _{FSM}	500mA	
Current			
Maximum		715mV	$I_F = 1mA$
Instantaneous	V_{F}	815mV	$I_F = 10mA;$
Forward Voltage		1000mV	$I_F = 50 \text{mA}$
		1250mV	$I_F = 150 \text{mA}$
Maximum DC		0.00	\/ -O5\/-H-
Reverse Current At	I_R	0.03μΑ	V _R =25Volts
Rated DC Blocking		1μΑ	V _R =75Volts
Voltage			
Typical Diode	C_D	1pF	Measured at
Capacitance		-	1.0MHz, V_R =0V
Junction temperature	Tj	150℃	
	-		
Reverse Recovery	T_{rr}	4nS	I _F =I _R =10mAdc,
Time			$V_R = 0V$
			$R_L=100\Omega$

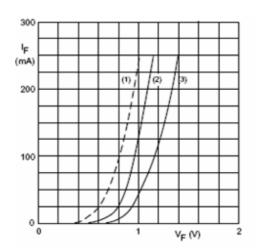


DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.059	.067	1.50	1.70		
В	.043	.051	1.10	1.30		
С	.030	.033	0.75	0.85		
D	.001	.003	0.01	0.07		
Е	.010	.014	0.25	0.35		
F	.003	.006	0.08	0.15		
G	.020	.028	0.50	0.70		
Н	.020	.031	0.51	0.77		
Suggested Solder Pad Layout						









- Fig.1 Maximum permissible continuous forward current as a function of soldering point temperature.
- T_j = 150 °C; typical values.
- (2) T_j = 25 °C; typical values.
- (3) T_i = 25 °C; maximum values.

Fig2 Forward current as a function of forward voltage

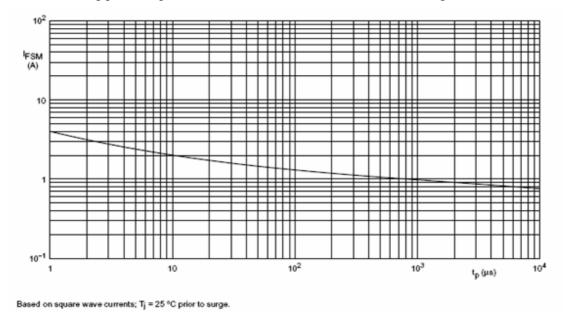


Fig.3 Maximum permissible non-repetitive peak forward current as a function of pulse duration.



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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