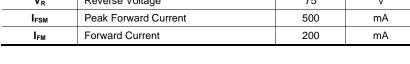
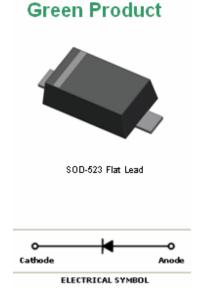


200mW SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package **General Purpose Application High Speed Switching Diode**

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Absolute maximum ratings 14 = 20 0 unless otherwise noted							
Symbol	Parameter	Value	Units				
P _D	Power Dissipation	200	mW				
T _{STG}	Storage Temperature Range	-55 to +150	°C				
TJ	Operating Junction Temperature	+150	°C				
V _R	Reverse Voltage	75	V				
I _{FSM}	Peak Forward Current	500	mA				
I _{FM}	Forward Current	200	mA				





These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Fast Switching Device (T_{RR} <4.0 nS)
- High Speed Switching Diodes
- Extremely Small SOD-523 Package
- Flat Lead SOD-523 Small Outline Plastic Package
- Surface Device Type Mounting
- **RoHS Compliant**
- Green EMC
- Matte Tin(Sn) Lead Finish
- **Band Indicates Cathode**

DEVICE MARKING CODE:

Device Type	Device Marking		
TCBAS16	E6		

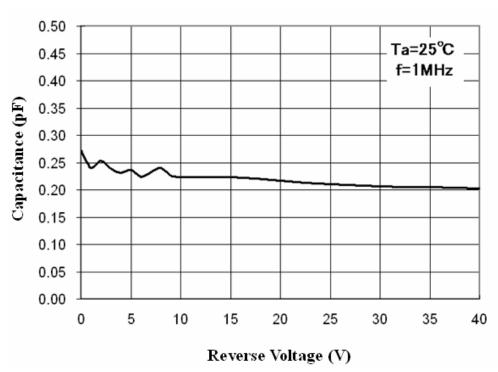
Electrical Characteristics T_A = 25°C unless otherwise noted

Cumbal	Parameter	Test Condition	Limits		Unit
Symbol	Farameter		Min	Max	Unit
Ву	Breakdown Voltage	I _R =100μA	75		Volts
I _R	Reverse Leakage Current	V _R =75V		1	μA
V _F	Forward Voltage	I _F =1mA		0.715	
		I _F =10mA		0.855	Volts
		I _F =50mA		1.1	VOIIS
		I _F =100mA		1.3	
T _{RR}	Reverse Recovery Time	I _F =10mA			
		V _R =6V		4	nS
		R _L =100Ω			
С	Capacitance	V _R =0V, f=1M _{HZ}		4	pF

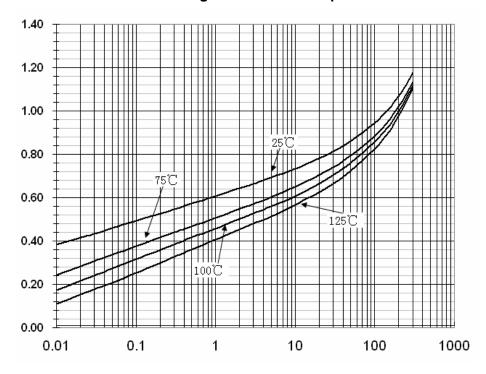


Typical Performance Characteristics

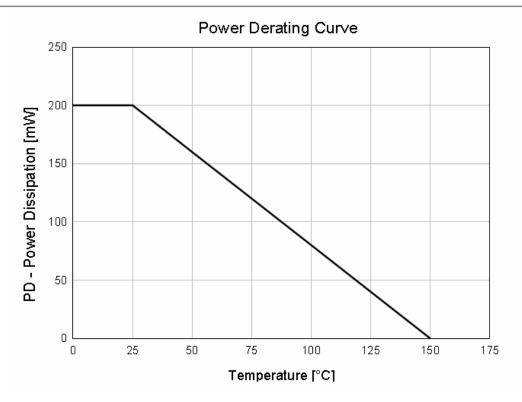
Total Capacitance



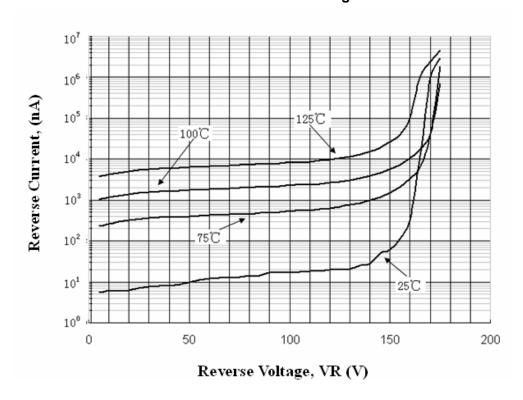
Forward Voltage vs Ambient Temperature





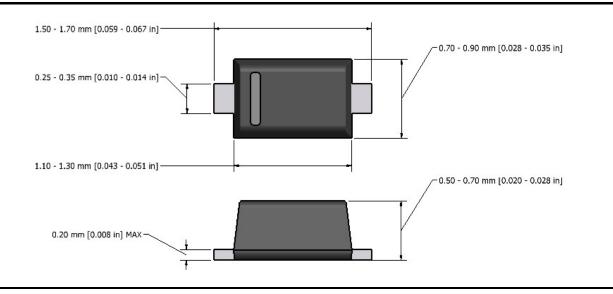


Reverse Current vs Reverse VoltageReverse





Flat Lead SOD-523 Package Outline



This datasheet presents technical data of Tak Cheong's Switching Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website http://www.takcheong.com.

Although information in this datasheet has been carefully checked, no responsibility for the inaccuracies can be assumed by Tak Cheong. Please consult your nearest Tak Cheong's sales office for further assistance.

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