

200mW SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package Schottky Barrier Diode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Parameter Value		
P _D	Power Dissipation	200	mW	
T _{STG}	Storage Temperature Range	-65 to +125	°C	
TJ	Operating Junction Temperature	+125	°C	
V_{RRM}	Repetitive Peak Reverse Voltage	30	V	
V_{R}	Maximum DC Blocking Voltage	30	V	
I _{F(AV)}	Average Forward Rectified Current	200	mA	
I _{FSM}	Peak Forward Surge Current	4	Α	

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

SOD-523 Flat Lead Cathode Anode

Specification Features:

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

DEVICE MARKING CODES:

Device Type	Device Marking		
BAT54XV2	5B		

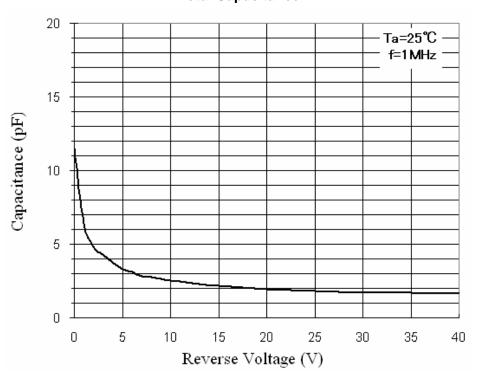
Electrical Characteristics $T_A = 25$ °C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		l lmi4
		rest Condition	Min	Max	Unit
Ву	Breakdown Voltage	I _R =10μA	30		Volts
I _R	Reverse Leakage Current	V _R =25V		2	uA
V _F	Forward Voltage	I _F =0.1mA		0.24	
		I _F =1mA		0.32	
		I _F =10mA		0.40	Volts
		I _F =30mA		0.50	
		I _F =100mA		0.80	
T_{RR}	Reverse Recovery Time	I _F =I _R =10mA			
		R _L =100Ω		5	nS
		I _{RR} =1mA			
С	Capacitance	V _R =1V, f=1M _{HZ}		10	pF

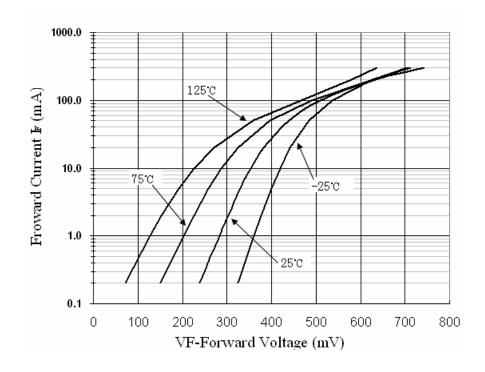


Typical Performance Characteristics

Total Capacitance

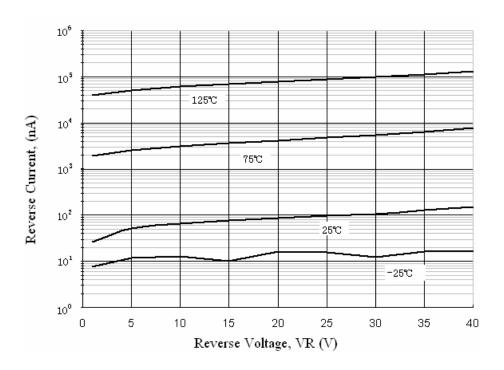


Forward Voltage vs Ambient Temperature



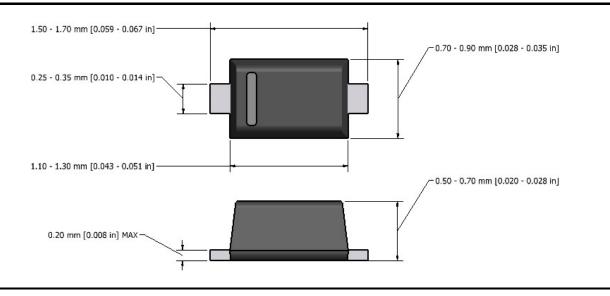


Reverse Current vs Reverse VoltageReverse





Flat Lead SOD-523 Package Outline



This datasheet presents technical data of Tak Cheong's Schottky Barrier 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.

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