



Micro Commercial Components 20736 Marilla Street Chatsworth **Micro Commercial Components** 

CA 91311

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## **Features**

- High speed switching diode
- Small Surface Mount Type
- High Reliability with High Surge Current Handing Capability
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

# 90Volts High Speed **Switching Diodes**

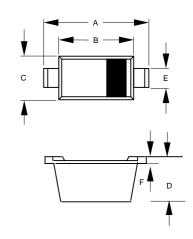
## **Maximum Ratings**

- Case: SOD-723, Molded Plastic
- Marking: 7
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings @ 25°C Unless Otherwise Specified

Maximum RMS Voltage	$V_R$	80	V
Peak	\/	90	\/
Reverse Voltage	$V_{RM}$	90	V
Average Forward	1	100	mA
Rectified Current	I <sub>O</sub>	100	IIIA
Peak Forward Current	I <sub>FM</sub>	225	mA
Surge Current(1S)	I <sub>surge</sub>	500	mΑ
Total Power Dissipation	P <sub>TOT</sub>	200	mW
Thermal Resistance, Junction to Ambient	R <sub>thJA</sub>	625	°C/W
Storage Temperature Range	$T_{STG}$	-55 to +125	$^{\circ}\mathbb{C}$
Junction Temperature	$T_j$	125	$^{\circ}\mathbb{C}$

## **SOD-723**



### Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Instantaneous Forward Voltage	$V_{F}$	1.20V	$I_{FM} = 100 \text{mA};$ $T_J = 25^{\circ}\text{C}$
Maximum Average Reverse Current	I <sub>R</sub>	0.1uA	$V_R$ =80Volts $T_J = 25^{\circ}C$
Capacitance between Terminals	Ст	3.0pF	Measured at 1.0MHz, V <sub>R</sub> =0.5V
Reverse Recovery Time	T <sub>rr</sub>	4nS	$I_F$ =10mA $V_R$ = 6V, $R_L$ =100 $Ω$

## **INCHES** NOTE .051 1.50 1.10 0.65

## **Typical Characteristics**



### Electrical characteristic curves (Ta = 25°C)

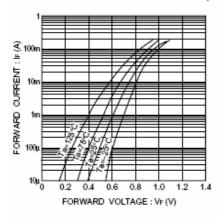


Fig.1 Forward characteristics

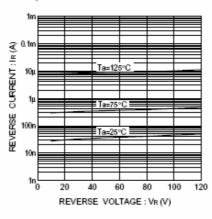


Fig.2 Reverse characteristics

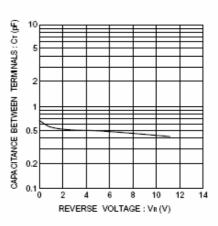


Fig.3 Capacitance between terminals

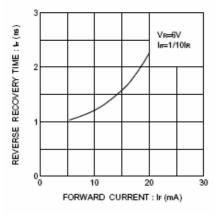


Fig.4 Reverse recovery time characteristics

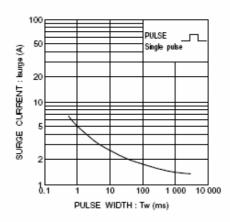


Fig.5 Surge current characteristics

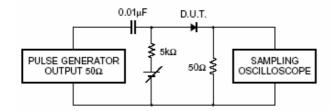


Fig.6 Reverse recovery time (t<sub>ff</sub>) measurement circuit



#### **Micro Commercial Components**

### **Ordering Information**

Device	Packing	
(Part Number)-TP	Tape&Reel8Kpcs/Reel	

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