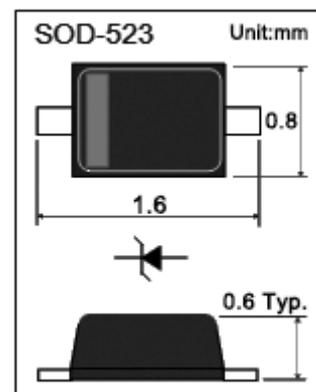


## DATA SHEET

### PB4010M5

- ◇ Low Forward Voltage Drop
- ◇ SOD523 Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking
- ◇ Surface Mount Package Ideally Suited  
for Automatic Insertion

Device Marking Code	
PB4010M5	KX



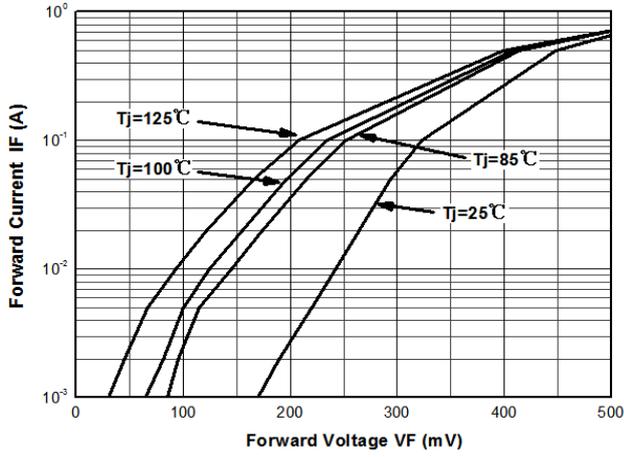
### Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
$V_{RRM}$	Repetitive Peak Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Rectified Current	1	A
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current ( @t=8..3ms )	6	A
$T_J$	Operating Junction Temperature	125	°C
$T_{STG}$	Storage Temperature Range	-50 to +125	°C

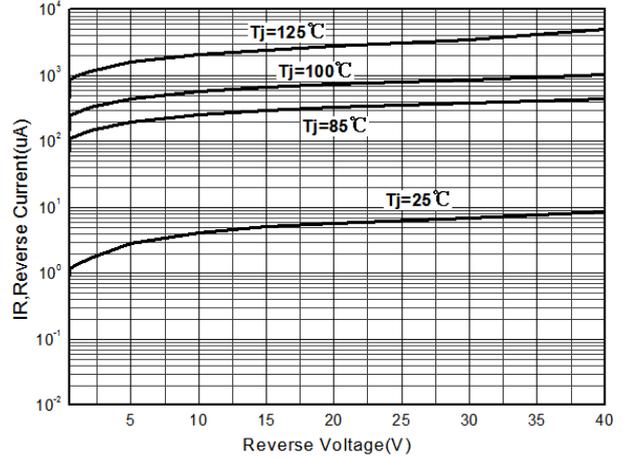
### Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	Max	Units
$V_F$	Forward Voltage	$I_F = 0.3A$		0.5	V
		$I_F = 1A$		0.8	V
$I_R$	Reverse current	$V_R = 40V$		100	uA
$V_{BR}$	Reverse breakdown voltage	$I_R = 0.5mA$	40		V
$C_T$	Capacitance	$V_R = 0V, f = 1MHz$		100	pF

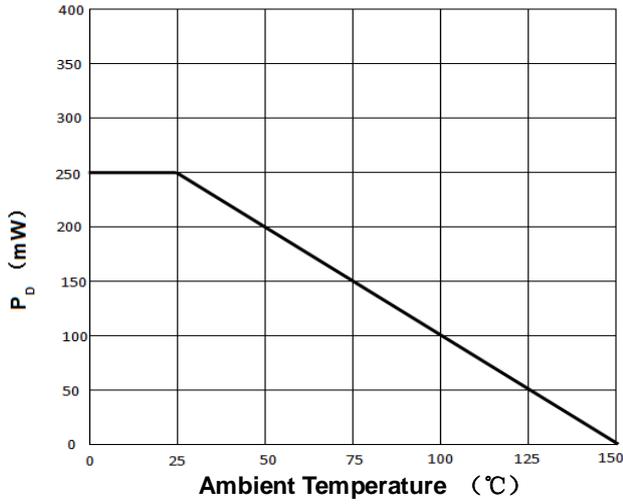
## Typical Characteristics



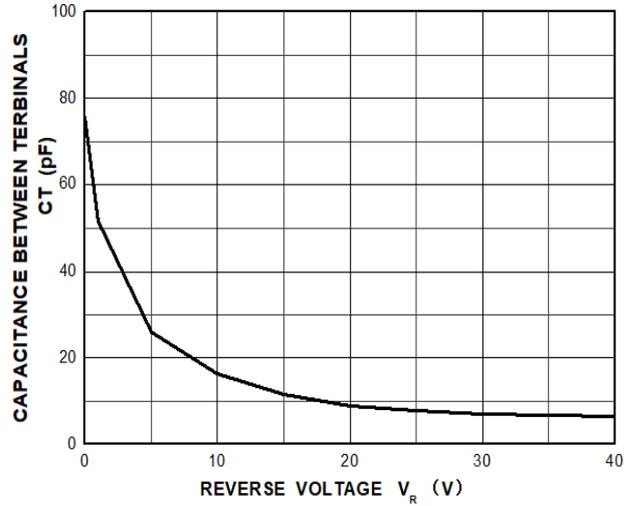
Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics



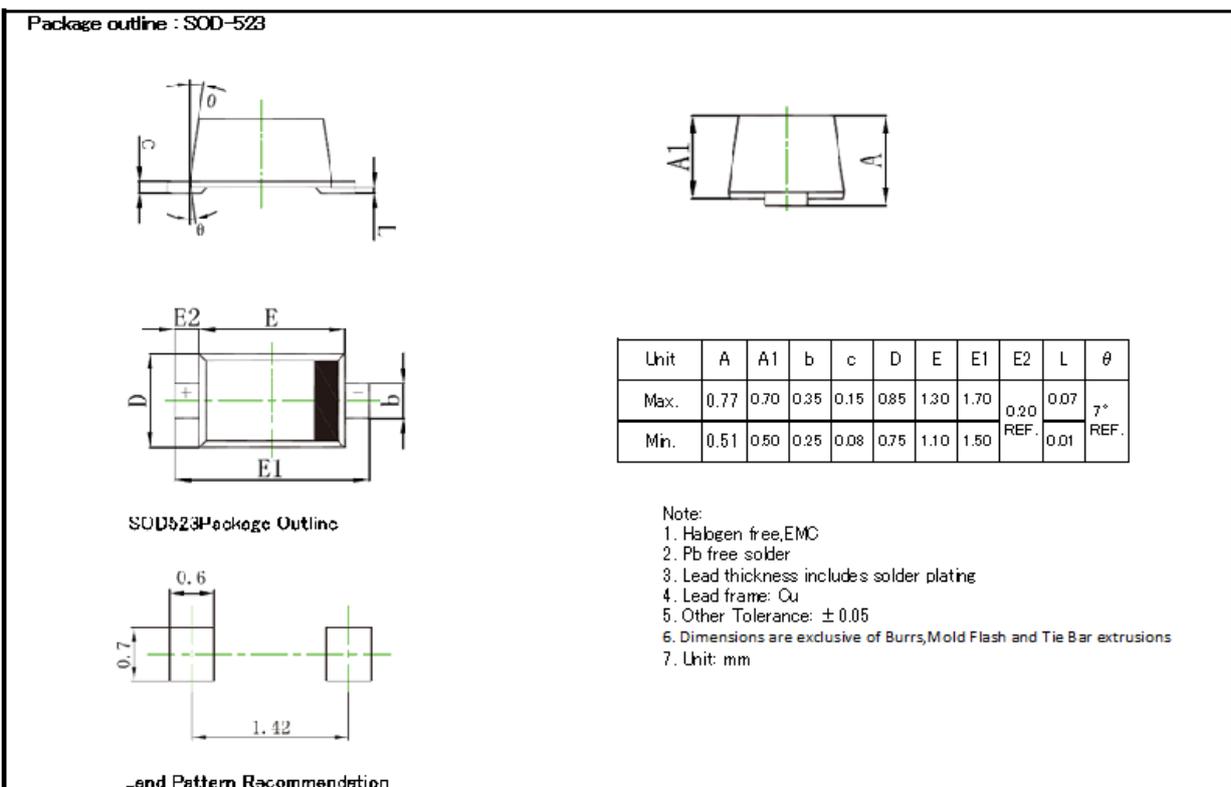
Power Derating Curve



Capacitance Characteristics

**Ordering Information**

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
PB4010M5	SOD523	Tape & Reel 8000pcs /7" Reel	8 mm	4 mm	Conductive	

**Package Dimensions**

**NOTICE**

POPPULA'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS COMPONENTS IN ANY LIFE SUPPORT DEVICES OR SYSTEMS.

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