

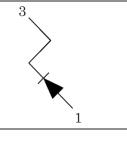
TCMBD914

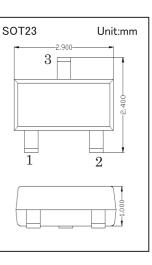
Switching Diode

- ♦ Fast Switching Speed
- \diamondsuit For General Purpose Switching Applictions
- ♦ High Conductance
- \diamond Low Current Leakage
- \diamond Small Outline Surface Mount Package
- \diamond RoHS compliant / Green EMC

Device Marking Code			
TCMBD914	KA2		

Equivalent Circuit





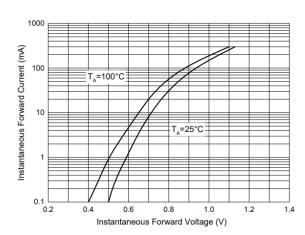
Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _R	Continuous Reverse Voltage	75	V
V _{RRM}	Non Repetitive Peak Reverse Voltage	100	V
I_{FM}	Forward Continuous Current	250	mA
I _o	Average Rectified Output Current	200	mA
\mathbf{I}_{FSM}	Non-R Repetitive Peak Forward Surge Current @8.3mS	2	А
P _D	Power Dissipation	350	mW
$R_{ heta JA}$	Thermal Resistance Junction to Ambient	357	°C/W
T_{STG}	Storage Temperature Range	-55~+150	°C
Τ _J	Junction Temperature	150	C°

Electrical Characteristics ($T_a = 25$ °C)

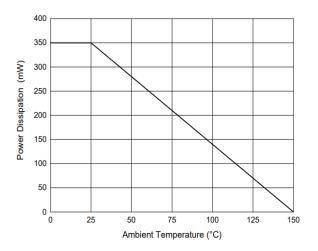
Symbol	Parameter	Test Conditions	Min	Тур	Max	Units	
V _R	Reverse Breakdown Voltage	I _R =100uA	100			- V	
		I _R =5uA	75				
V _F	Forward Voltage	I _F =1mA			0.715	v	
		I _F =10mA			0.855		
		I _F =50mA			1		
		I _F =150mA			1.25		
I _R	Reverse Voltage Leakage Current	V _R =20V			25	nA	
		V _R =75V			1	uA	
CJ	Typical Junction Capacitance	V _R =0V, f=1.0MHz			2	рF	
Trr	Reverse Recovery Time	$I_F = I_R = 10 \text{mA}, \text{Irr} = 0.1 \text{mA}, R_L = 100 \Omega$			4	nS	

RATING AND CHARACTERISTICS CURVES (TCMBD914)



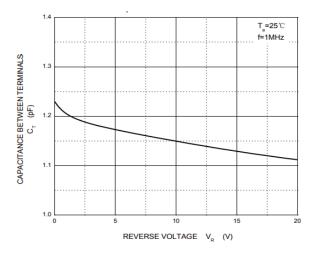
1000 Bergerse Voltage (V)

Typical Instantaneous Forward Characteristics



Power Derating Curve

Typical Reverse Leakage Characteristics



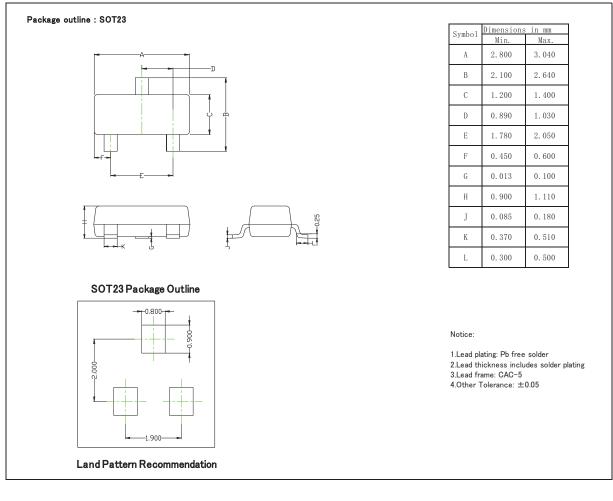
Capacitance Characteristics



Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions





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