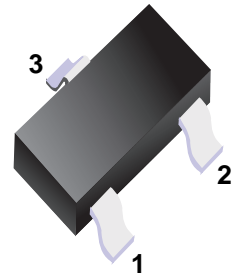


■ Schottky Barrier Diode



■ Simplified outline(SOT-323)

■ Features

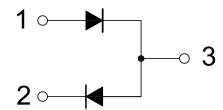
- Small Package
- Low Forward Voltage

■ Applications

High Speed Switching

■ Marking

Marking	N9
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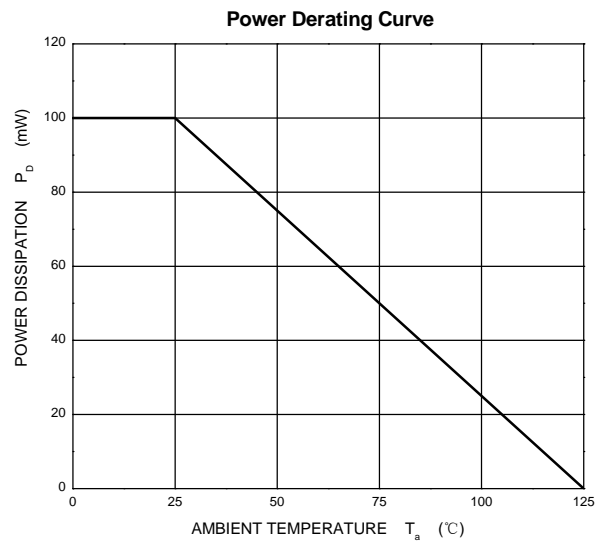
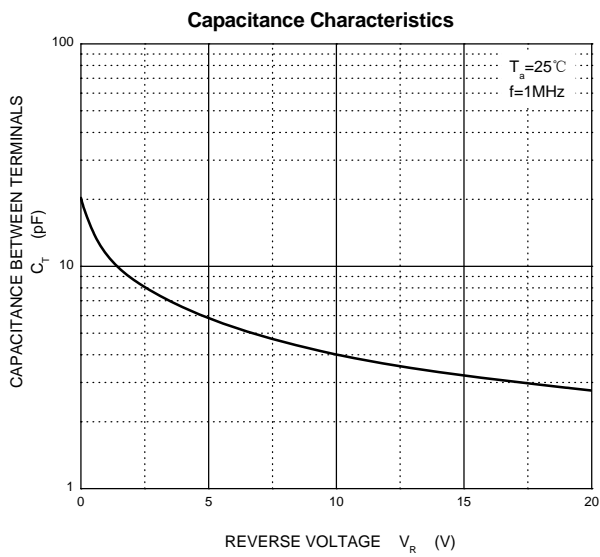
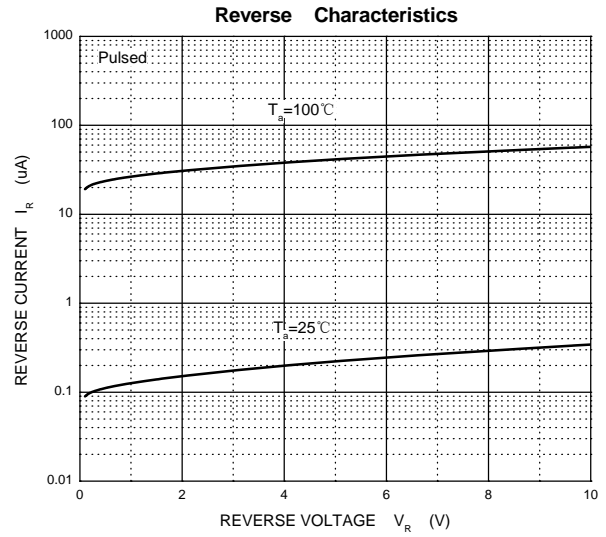
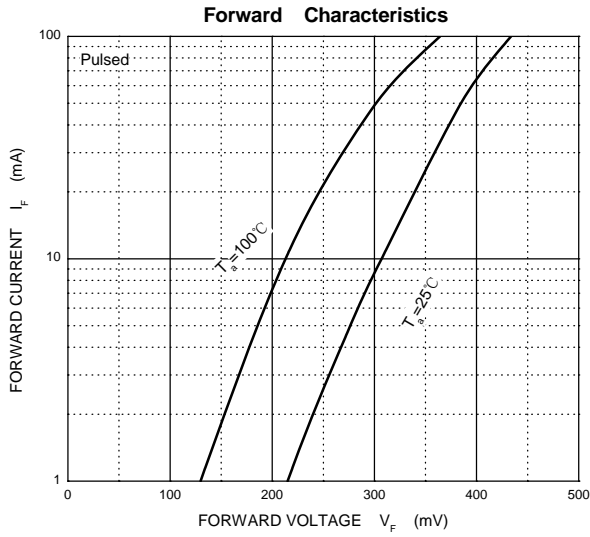


■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	10	V
I_O	Forward Continuous Current	100	mA
I_{FM}	Peak Forward Current	200	mA
I_{FSM}	Non-respetitive Peak Forward Surge Current@t=8.3ms	1	A
P_D	Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	1000	$^\circ\text{C}/\text{W}$
T_j	Junction Temperature	125	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^\circ\text{C}$

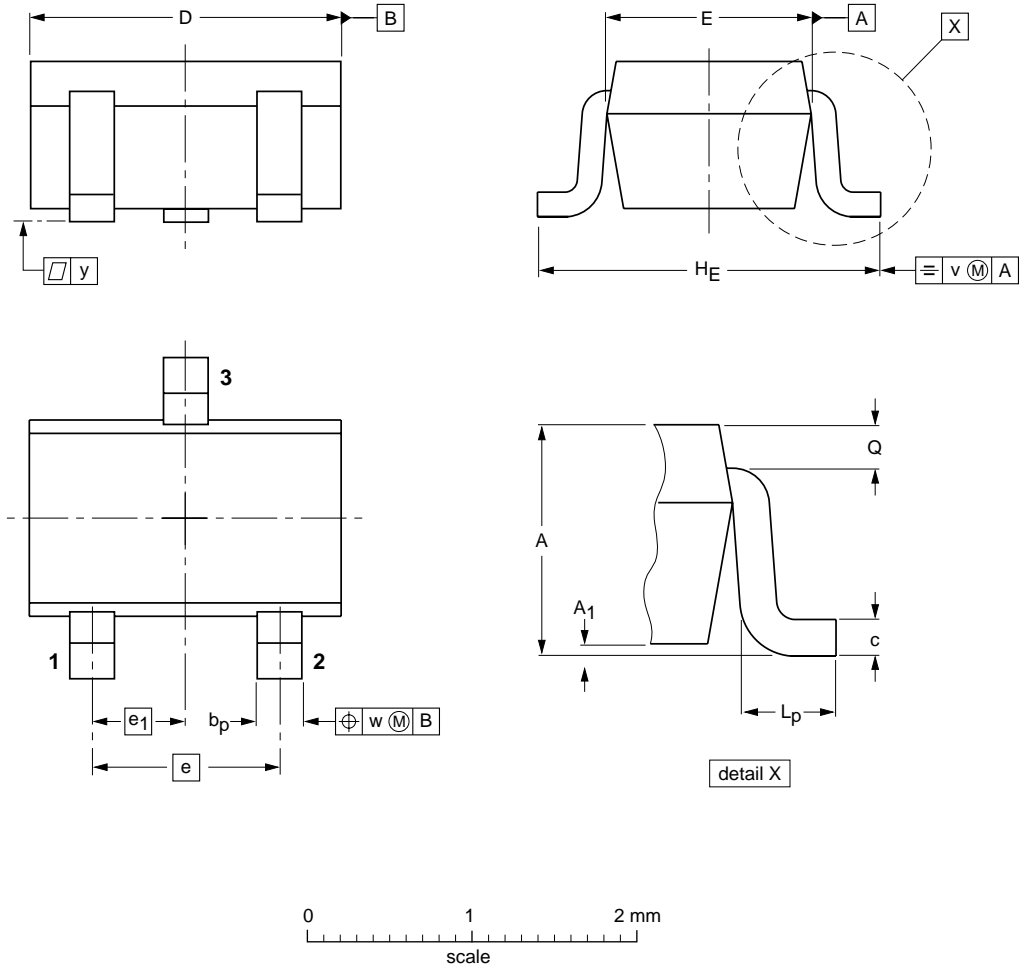
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	10			V
Reverse current	I_R	$V_R=10\text{V}$			20	μA
Forward voltage	V_F	$I_F=1\text{mA}$		0.18		V
		$I_F=5\text{mA}$		0.3		
		$I_F=100\text{mA}$			0.5	
Total capacitance	C_{tot}	$V_R=0\text{V}, f=1\text{MHz}$			40	pF



Package Outline

SOT-323



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.8	0.1	0.4 0.3	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.23 0.13	0.2	0.2

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SOT-323	Tape/Reel, 7" reel	3000	EIA-481-1