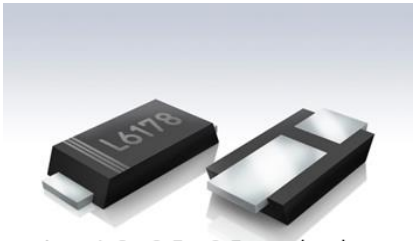
L9204F

EK0506-0008 Ver.C

PIN Diode

■ FEATURES

- High power handling for VHF/UHF band
- Small capacitance at zero bias
  and/or extremely small reverse bias
- Low series resistance
- Very low insertion loss, high isolation
- Surface mountable plastic molded package
- RoHS compliant
- Lead free / Halogen free



size : 1.6 x 3.5 x 0.5 mm (typ)

■ MECHANICAL DATA

- Case : SOD-123 ST package
  molded plastic.
- Terminals : Tin plated, solderable per
  MIL-STD-750, method 2026.
- Polarity : Indicated by cathode band.

■ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATING	UNITS
V_R	Reverse Voltage	180	V
P_D *	Power Dissipation	1	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55 to 150	℃

*) Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm)

■ELECTRICAL CHARACTERISTICS (Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
I_R	Reverse Current	**V_R** = 180V	-	-	10	μA
V_F	Forward Voltage	**I_F** = 50mA	-	-	1.0	V
C_T	Diode Capacitance	**V_R** =40V, f = 100MHz	-	0.6	0.9	pF
R_{fs}	Forward Series Resistance	**I_F** = 50mA, f = 100MHz	-	0.4	0.65	Ω
Rp	Parallel Resistance	**V_R** =0V, f = 100MHz	1.0	3.0	-	kΩ

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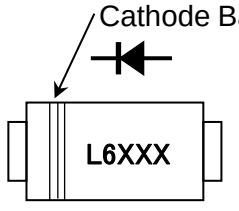
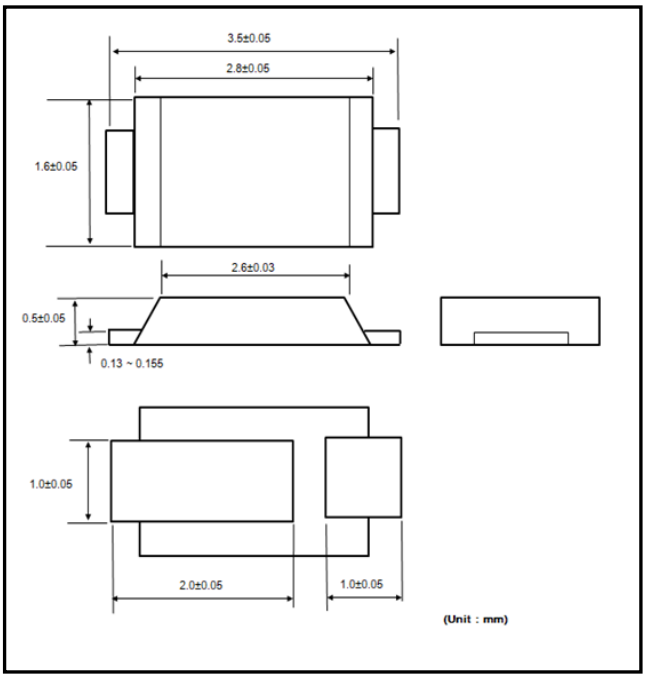
■MARKING INFORMATION

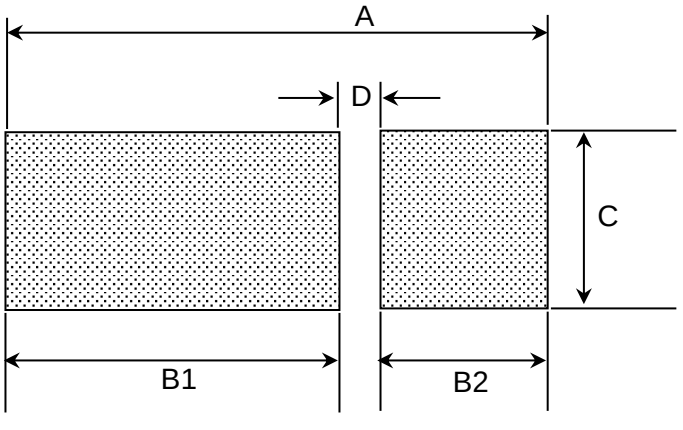


L6 : Parts number L9204F
XXX : Lot Code (3～4digits)

■PACKAGE OUTLINE INFORMATION



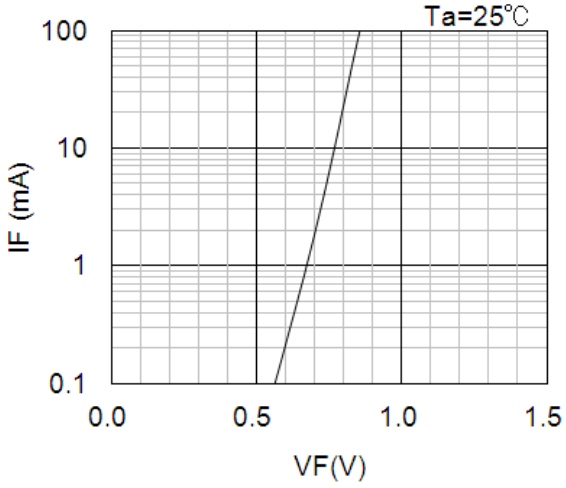
■SUGGESTED PAD LAYOUT



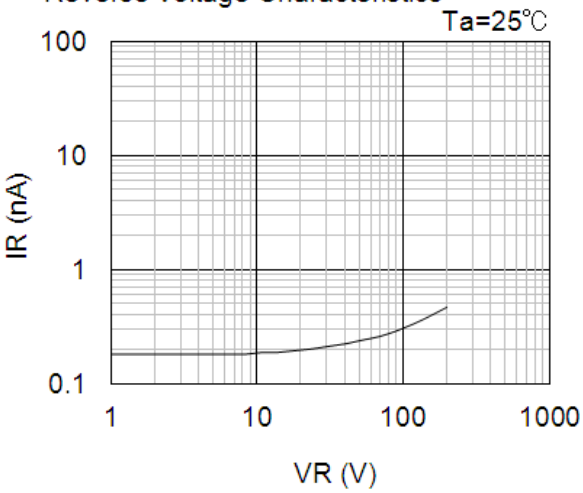
Size	SOD-123ST
A	3.9
B1	2.3
B2	1.3
C	1.4
D	0.3
unit	mm

■TYPICAL PERFORMANCE CHARACTERISTICS

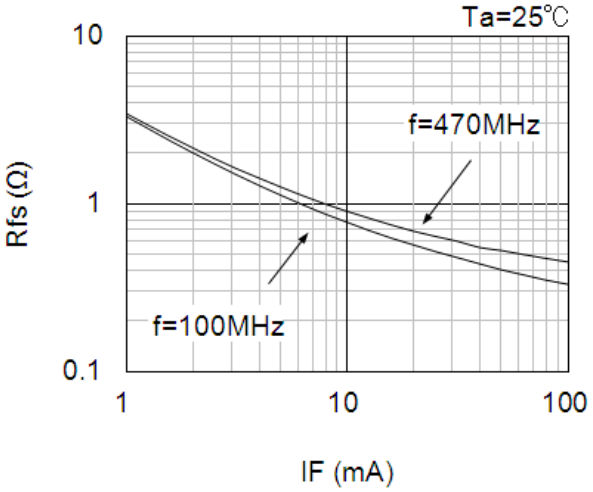
Forward Current vs.
Forward Voltage Characteristics



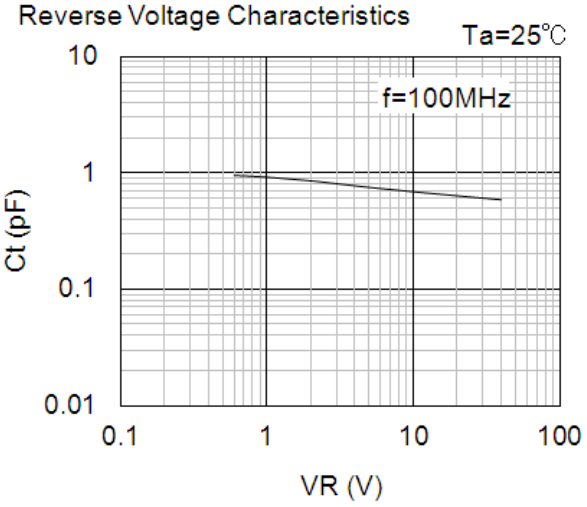
Reverse Current vs.
Reverse Voltage Characteristics



Forward Series Resistance vs.
Forward Current Characteristics



Diode Capacitance vs.
Reverse Voltage Characteristics



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