



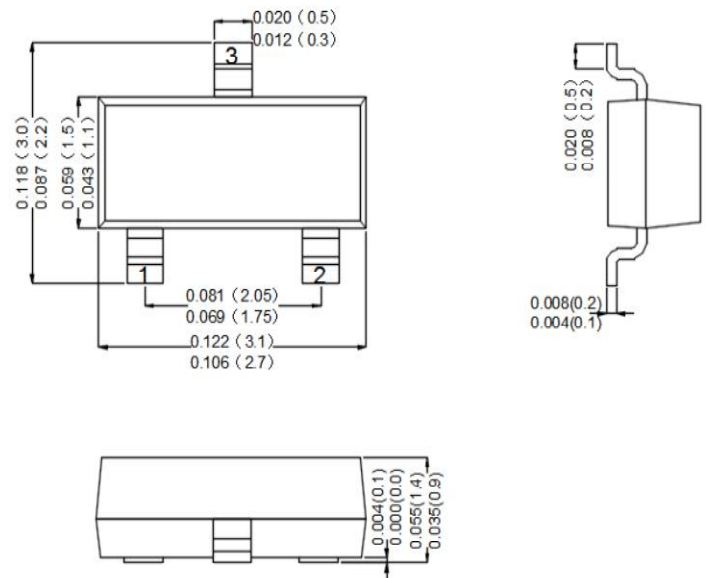
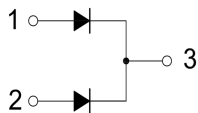
Features

- Small Surface Mounting Type
- Low VF
- High Reliability

SOT-23

Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: D3L
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Symbol	Parameter	Value	Unit
V_R	Continuous Reverse Voltage	40	V
I_O	Continuous Forward Current	100	mA
I_{FSM}	Peak Forward Surge Current	1	A
P_D	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	400	°C/W
T_j	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55~+150	°C

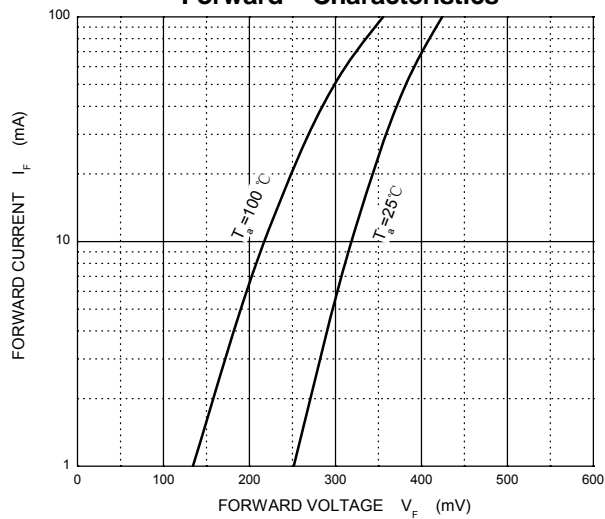
Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu A$	40			V
Reverse current	I_R	$V_R=10V$			30	μA
Forward voltage	V_F	$I_F=100mA$			0.55	V
		$I_F=10mA$			0.34	
Total capacitance	C_{tot}	$V_R=10V, f=1MHz$		6		pF

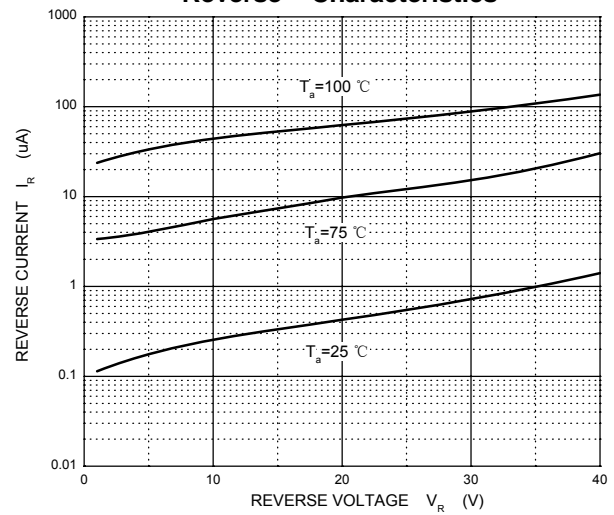


Rating And Characteristic Curves

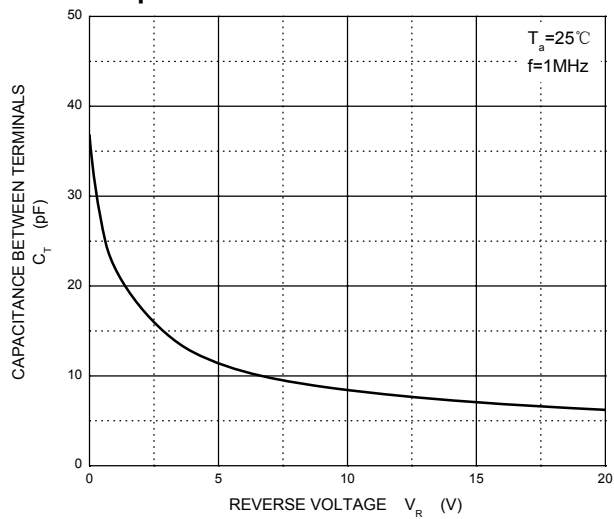
Forward Characteristics



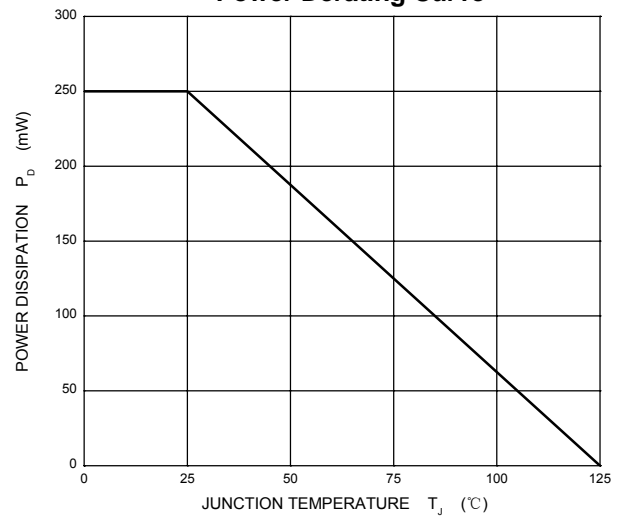
Reverse Characteristics



Capacitance Characteristics Per Diode



Power Derating Curve





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