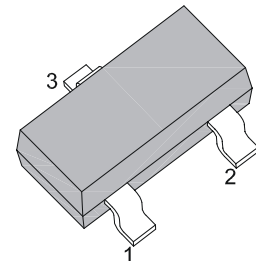


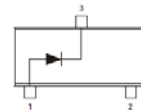
High Performance Switching Diode

Features

- Silicon Epitaxial Planar Diode
- Ultra High Speed Switching Application
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS Compliant



SOT-23



Mechanical Data

Case:	SOT-23, Plastic Case
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	Approx. 0.0088 gram

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	MMBD4148-193	Unit
	Marking Code	F3	
VRM	Reverse Voltage	80	V
VRRM	Peak Reverse Voltage	85	V
IF(AV)	Forward Average Current	100	mA
IFM	Peak Forward Current	300	mA
IFSM	Peak Forward Surge Current (10mS)	2	A
PD	Power Dissipation	150	mW
TJ	Junction Temperature	150	°C
TSTG	Storage Temperature Range	-55 to +150	°C

High Performance Switching Diode

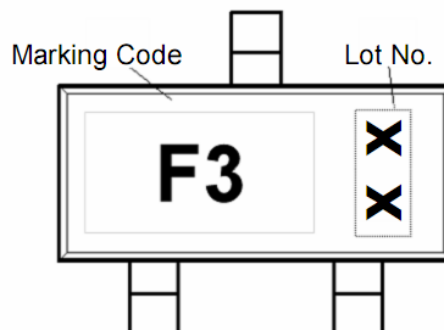
MMBD4148-193

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Min.	Typ.	Max.	Unit	Conditions
V_F	Forward Voltage	-	0.60	-	V	I _F =1mA
		-	0.72	-		I _F =10mA
		-	0.90	1.20		I _F =100mA
I_R	Reverse Current	-	-	0.5	μA	V _R =80V
C_T	Total Capacitance	-	0.9	3.0	pF	V _R =0V, f=1MHz
T_{rr}	Reverse Recovery Time	-	1.6	4.0	nS	I _F =10mA

Marking Information:

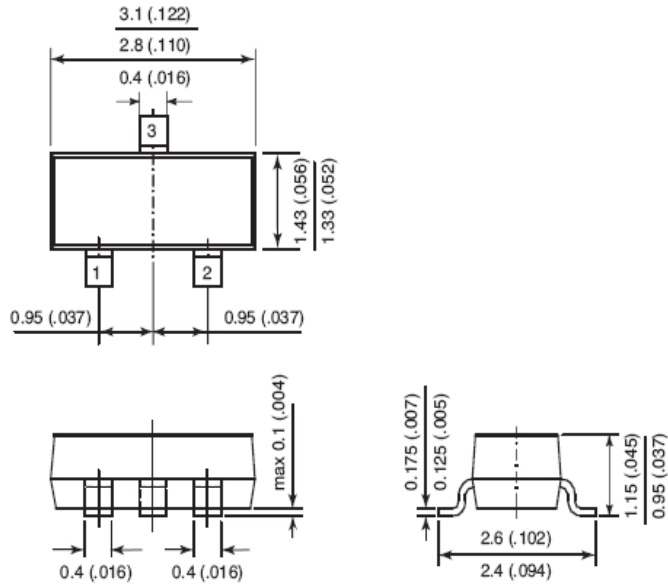
Laser Marking



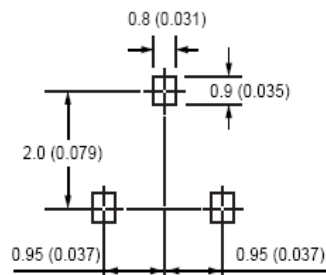
High Performance Switching Diode

MMBD4148-193

Dimensions in mm (inch)



Mounting Pad Layout in mm (inch)



SOT-23

High Performance Switching Diode

MMBD4148-193

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