Elektronische Bauelemente

MMBD318 Series

MMBD318/MMBD318A/MMBD318C/MMBD318S

Surface Mount High Votlage Switching Diode

A suffix of "-C" specifies halogen & lead-free

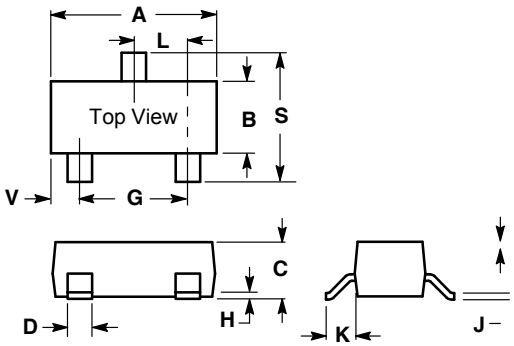
FEATURES

- RoHS Compliant Product

High Reverse Breakdown Voltage

Ultra high speed Switching

High Conductance



SC-59		
Dim	**Min**	**Max**
A	2.700	3.100
B	1.400	1.600
C	1.000	1.400
D	0.350	0.500
G	1.800	2.000
H	0.000	0.100
J	0.085	0.177
K	0.400	0.600
L	0.850	1.150
S	2.400	2.800
V	0.450	0.550
All Dimension in mm		

MECHANICAL DATA

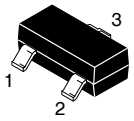
Case: SC59, Molded Plastic

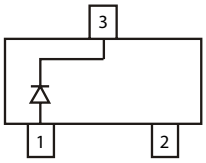
Terminals: Solderable per MIL-STD-202, Method 208

Polarity: See Diagrams Below

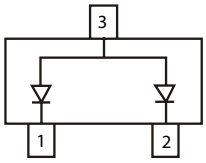
Weight: 0.008 grams (approx.)

Mounting Position: Any

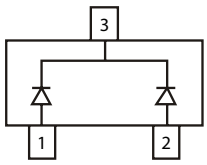




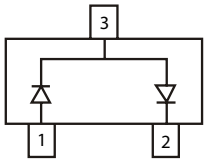
MMBD318 Marking: LD6



MMBD318A Marking: LD7



MMBD318C Marking: LD8



MMBD318S Marking: LD9

Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Max.Repetitive Peak Reverse Voltage	V_{RRM}	350	V
Max.RMS Voltage	V_{RMS}	212	V
Max. DC Blocking Voltage	V_{DC}	300	V
Max. Average Forward Rectified Current	I_o	225	mA
Typical Junction Capacitance between Terminal (Note 1)	C_j	5.0	pF
Max. Reverse Recovery Time (Note2)	T_{rr}	50	ns
Non-Repetive Peak Forward surge Current @Tp=1.0us	I_{FSM}	4	A
@Tp= 1.0s		1	
Power Dissipation	P_D	350	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	357	°C/W
Operation and Storage Temperature Range	T_j,T_{STG}	-60~+150	°C

Electrical Characteristics (AT T_A = 25°C unless otherwise noted)

Characteristics	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage. I_R=150uA	V_R	350	-	V
Average Reverse Current. VR=240V, TA=25°C	I_R	-	100	nA
VR=240V, TA=150°C		-	100	uA
Forward Voltage	V_F	-	1.0	V

Note: 1. Measured at 1.0 MHz and applied reverse of 0 voltage

2. Measured at applied forware current of 30mA, R_L=100Ω and recovery to I_{RR}=-3mA

3. ESD sensitive product handling required.

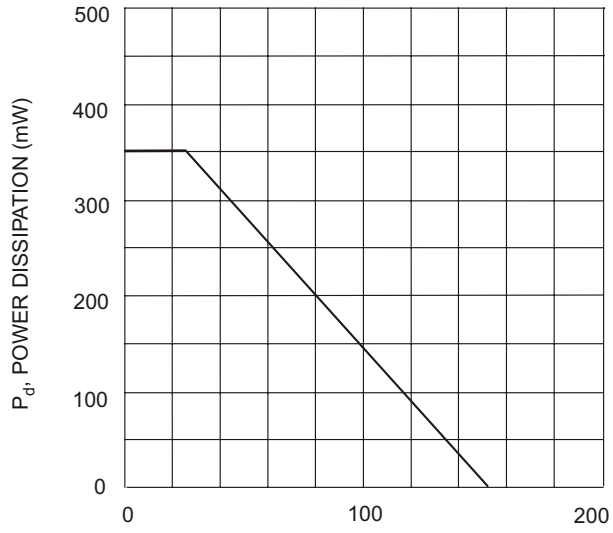


Fig. 1 Power Derating Curve, total package

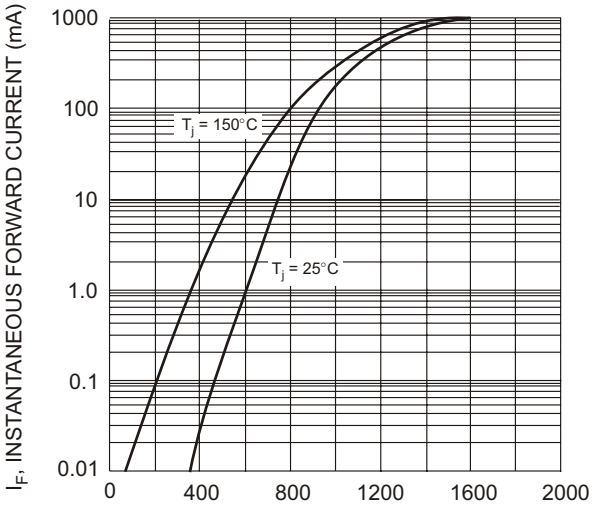


Fig. 2 Typical Forward Characteristics, per element

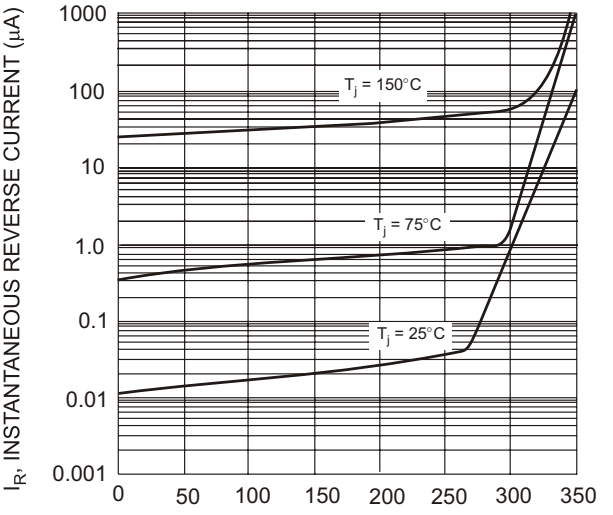


Fig. 3 Typical Reverse Characteristics, per element

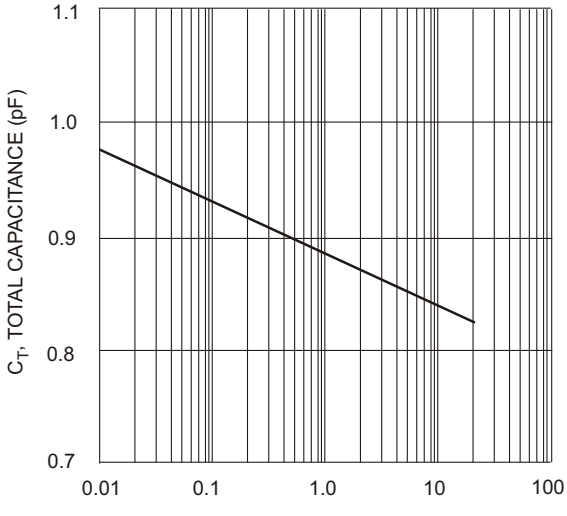


Fig. 4 Typical Total Capacitance vs. Reverse Voltage, per element