

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

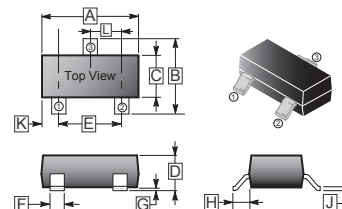
SOT-23

FEATURES

- High conductance Low Leakage Diode

MARKING

Part Name	MMBD1501A	MMBD1503A	MMBD1504A	MMBD1505A
Marking	A11	A13	A14	A15
Circuit				



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.04	G	-	0.18
B	2.10	2.80	H	0.40	0.60
C	1.20	1.60	J	0.08	0.20
D	0.89	1.40	K	0.6	REF.
E	1.78	2.04	L	0.85	1.15
F	0.30	0.50			

ABSOLUTE MAXIMUM RATINGS (@ Ta = 25°C)

PARAMETER		SYMBOL	LIMITS	UNIT
Working Inverse Voltage		V_R	200	V
DC Forward Current		I_F	600	mA
Average Rectifying Current		I_O	200	mA
Total Device Dissipation		P_D	350	mW
Thermal Resistance, Junction to Ambient		$R_{\theta JA}$	357	°C/W
Surge Current	1 s	I_{SURGE}	1	A
	1 microsecond		2	A
Junction, Storage Temperature		T_J, T_{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (at Tamb = 25°C unless otherwise specified)

Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	200	-	V	$I_R = 5\mu A$
Reverse voltage leakage current	I_R	-	10	nA	$V_R = 180V$
Forward Voltage	V_{F1}	-	0.75	V	$I_F = 1 mA$
	V_{F2}	-	0.85	V	$I_F = 10 mA$
	V_{F3}	-	0.95	V	$I_F = 50 mA$
	V_{F4}	-	1.1	V	$I_F = 100 mA$
	V_{F5}	-	1.3	V	$I_F = 200 mA$
	V_{F6}	-	1.5	V	$I_F = 300 mA$
Diode Capacitance	C_D	-	4	pF	$V_R = 0, f = 1 MHz$

RATINGS AND CHARACTERISTIC CURVES

