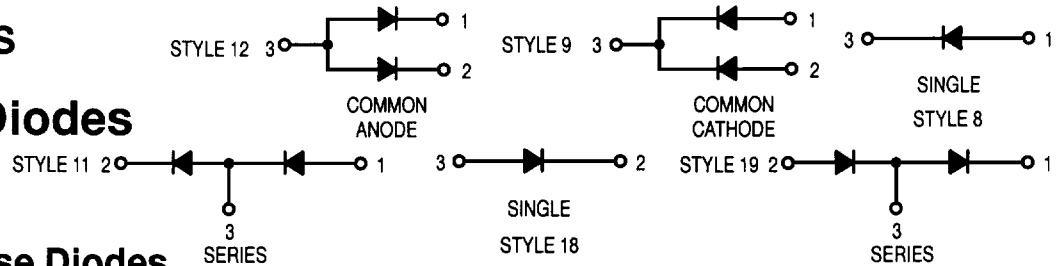


# SOT-23 DIODES

## Switching Diodes



## General-Purpose Diodes

The following is a listing of small-signal switching diodes in surface mount packages. These diodes are intended for low current switching and signal steering applications.

Device	Marking	$V_{(BR)R}$		$I_R$		$V_F$			$C_T^{(1)}$	$t_{rr}$	Pin Out
		Min (V)	@ $I_{BR}$ ( $\mu A$ )	Max ( $\mu A$ )	@ $V_R$ (V)	Min (V)	Max (V)	@ $I_F$ (mA)	Max (pF)	Max (ns)	Case Style

### SINGLE

BAS21LT1	JS	250	100	0.1	200		1.0	100	5.0	50	8
MMBD914LT1	5D	100	100	5.0	75		1.0	10	4.0	4.0	8
BAS16LT1	A6	75	100	1.0	75		1.0	50	2.0	6.0	8
MMBD6050LT1	5A	70	100	0.1	50	0.85	1.1	100	2.5	4.0	8
BAL99LT1	JF	70	100	2.5	70		1.0	50	1.5	6.0	18

### DUAL

<b>MMBD7000LT1</b>	M5C	100	100	0.3	50	0.75	1.1	100	1.5	4.0	11
MMBD2836LT1	A2	75	100	0.1	50		1.0	10	4.0	4.0	12
MMBD2838LT1	A6	75	100	0.1	50		1.0	10	4.0	4.0	9
<b>BAV70LT1</b>	A4	70	100	5.0	70		1.0	50	1.5	6.0	9
<b>BAV99LT1</b>	A7	70	100	2.5	70		1.0	50	1.5	4.0	11
<b>BAW56LT1</b>	A1	70	100	2.5	70		1.0	50	2.0	6.0	12
MMBD6100LT1	5BM	70	100	0.1	50	0.85	1.1	100	2.5	4.0	9
<b>BAV170LT1</b>	JX	70	100	0.005	70	—	1.0	10	2.0	3000	9
<b>BAV199LT1</b>	JY	70	100	0.005	70	—	1.0	10	2.0	3000	11
<b>BAW156LT1</b>	JZ	70	100	0.005	70	—	1.0	10	2.0	3000	12
BAV74LT1	JA	50	5.0	0.1	50		1.0	100	2.0	4.0	9
MMBD2835LT1	A3	35	100	0.1	30		1.0	10	4.0	4.0	12
MMBD2837LT1	A5	35	100	0.1	30		1.0	10	4.0	4.0	9

(1)  $V_R = 0 V, f = 1.0 MHz$

## Mixer and Detector Diodes

The following PIN diodes are designed for VHF band switching and general-purpose low current switching applications.

Device	$V_{(BR)R}$ Volts Min	$C_T @ V_R @ 1.0 MHz$		$I_R @ V_R$ nA Max	Series Resistance Ohm Max	Device Marking	Style
		pF Max	Volts				

### PIN SWITCHING DIODES

MMBV3700LT1	200	1.0	20	0.1 @ 150	1.0 @ 10 mA	4R	8
<b>MMBV3401LT1</b>	35	1.0	20	0.1 @ 25 V	0.7 @ 10 mA	4D	8

### HOT-CARRIER (SCHOTTKY) DIODES

The following is a listing of hot carrier (Schottky) diodes that exhibit low forward voltage drop for improved circuit efficiency.

Device	$V_{(BR)R}$ Volts	$C_T @ V_R$ pF Max	$V_F @ 10 mA$ Volts Max	$I_R @ V_R$ nA Max	Minority Lifetime pS (TYP)	Device Marking	Style
<b>MMBD701LT1</b>	70	1.0 @ 20 V	1.0	200 @ 35 V	15	5H	8
<b>MMBD301LT1</b>	30	1.5 @ 15 V	0.6	200 @ 25 V	15	4T	8
<b>MMBD101LT1</b>	7.0	1.0 @ 0 V	0.6	250 @ 3.0 V	—	4M	8
<b>MMBD352LT1</b> (1)	7.0	1.0 @ 0 V	0.6	250 @ 3.0 V	—	M5G	11
<b>MMBD353LT1</b> (1)	7.0	1.0 @ 0 V	0.6	250 @ 3.0 V	—	M4F	19
<b>MMBD354LT1</b> (1)	7.0	1.0 @ 0 V	0.6	250 @ 3.0 V	—	M6H	9

(1) Dual Diodes

See Packaging Information under Technical Data Section for reel size, quantity and ordering information.

Devices listed in bold, italic are Motorola preferred devices.