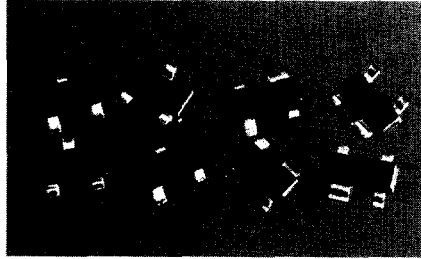


SOT-23 / SOT-143 SCHOTTKY BARRIER DIODES

- Standard SOT-23 SOT-143 Case Styles
- Dozens of Values and Configurations
- Available on Tape and Reel
- Lowest Conversion Loss



DESCRIPTION

Mil spec quality Schottky barrier devices are now available in economical plastic packages. Priced for high volume commercial applications, these devices provide state-of-the-art electrical performance, ideal for use as detectors, mixers, in up/down converters or in sampling phase detectors. When ordering, specify configuration - see configuration table for internal wiring diagrams. Other configurations are available - some limitations apply. Consult factory for availability.

APPLICATIONS

- Mixers
- Detectors
- Limiters
- Sampling
- Wave Shaping

ABSOLUTE MAXIMUM RATINGS AT 25°C

Peak Inverse Voltage (PIV):	Same as V_B
Forward Current (I_F):	1 AMP (1 μ S Pulse)
Power Dissipation (P_D):	250 mW, derate linearly to 0 at T_j (max)
Junction Temp. (Operating):	-55°C to +125°C
Storage Temp. (Non-Operating):	-55°C to +125°C

SOT-23 / SOT-143 ELECTRICAL SPECIFICATIONS

P/N	CONFIGURATION	$V_B @ I_R$	$I_R @ V_R$	$V_F @ I_F = 1mA$	$C_T @ OV_R$	$R_D @ I_F$
LSS701	23-0	> 70 V @ 10 μ A	< 200 nA @ 50 V	< 430 mV	< 2.0 pF	32 Ω TYP @ 5 mA
	143-5					
LSS301	23-0	> 20 V @ 10 μ A	< 200 nA @ 15 V	< 430 mV	< 1.4 pF	15 Ω TYP @ 5 mA
	23-1					
	23-2					
	23-3					
	23-4					
	143-5					
LSS101	23-0	> 8 V @ 100 μ A	< 100 nA @ 1 V	< 350 mV	< 1.0 pF	10 Ω TYP @ 5 mA
	23-1					
	23-2					
	23-3					
	23-4					
	143-5					
LSS201	23-0	> 3 V @ 10 μ A	< 400 nA @ 1 V	250 to 350 mV	< 0.25 pF	< 14 Ω @ 10 mA
	23-2					

Surface Mount Devices

INDUSTRY CROSS REFERENCE

P/N	CONFIGURATION	INDUSTRY EQUIVALENTS		
LSS701	23-0	HSMS2800	SMS1526-50	MA4CS101A
	143-5	HSMS2805	SMS3991-50	MA4CS101E
LSS301	23-0	HSMS2810	SMS1526-30	MA4CS103A
	23-1	HSMS2811		
	23-2	HSMS2812	SMS1527-30	MA4CS103B
	23-3	HSMS2813	SMS1528-30	MA4CS103D
	23-4	HSMS2814	SMS1529-30	MA4CS103C
	143-5	HSMS2815	SMS3991-30	MA4CS103E
LSS101	23-0	HSMS2820	SMS1526-10	MA4CS102A
	23-1	HSMS2821		
	23-2	HSMS2822	SMS1527-10	MA4CS102B
	23-3	HSMS2823	SMS1528-10	MA4CS102D
	23-4	HSMS2824	SMS1529-10	MA4CS102C
	23-5			
	143-5	HSMS2825	SMS3991-10	MA4CS102E
LSS201	23-0		SMS3989	MA4E1245KA
	23-2		SMS3988	MA4E1245KB