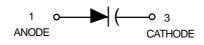


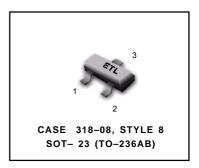
Silicon Tuning Diode

This device is designed for 900 MHz frequency control and tuning applications. It provides solid–state reliability in replacement of mechanical tuning methods.

- Controlled and Uniform Tuning Ratio
- Available in Surface Mount Package
- Available in 8 mm Tape and Reel







MAXIMUM RATINGS(EACH DIODE)

Rating	Symbol	Value	Unit
Reverse Voltage	V _R	20	Vdc
Forward Current	I _F	20	mAdc
Device Dissipation ⁽¹⁾ @T _A = 25°C	P _D	225	mW
Derate above 25°C		1.8	mW/°C
Junction Temperature	ΤJ	+125	°C
Storage Temperature Range	T _{stg}	-55 to +150	C°

DEVICE MARKING

MMBV809LT1=5K								
ELECTRICAL CHARACTERISTICS(T _A =25°C unless otherwise noted)								
Characteristic	Symbol	Min	Max	Unit				
Reverse Breakdown Voltage	V (BR)R	20		Vdc				
(I _R =10µAdc)	V (BR)R	20		Vuc				
Reverse Voltage Leakage Current	1-	_	50	nAdc				
(V _R =15Vdc)	I _R	_	50	IIAde				

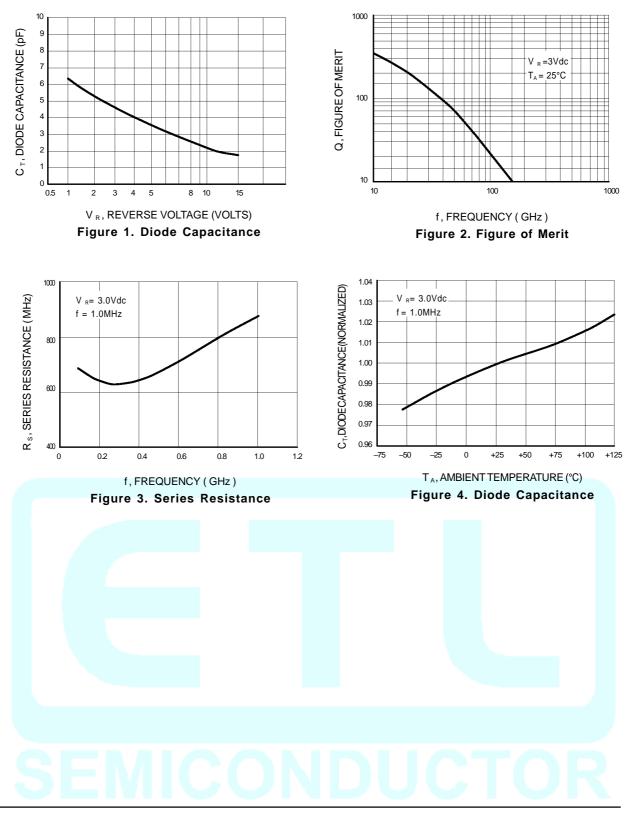
Device Type	C _T Diode Capacitance V _R =2.0Vdc,f=1.0MHz pF		Q,Figure of Merit V _R =3.0Vdc f=500MHz		C _R ,Capacitance Ratio C ₂ /C ₈ f=1.0MHz(2)			
	Min	Тур	Max	Тур		Mir	า	Max
MMBV809LT1	4.5	5.3	6.1	75		1.8		2.6

1. FR-5 Board 1.0 x 0.75 x 0.62 in.

2. C_R is the ratio of C_t measured at 2.0 Vdc divided by C_t measured at 8.0 vdc



MMBV809LT1



TYPICAL CHARACTERISTICS