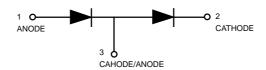


Dual Series Schottky Barrier Diodes

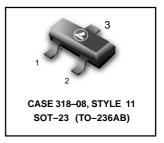
These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

- Extremely Fast Switching Speed
- Low Forward Voltage 0.35 Volts (Typ) @ I F = 10 mAdc



BAT54RSLT1

30 VOLTS
DUAL HOT- CARRIER
DETECTOR AND
SWITCHING
DIODES



DEVICE MARKING

BAT54S = LD3

MAXIMUM RATINGS (T _J = 125°C unless otherwise noted)

Rating	Symbol	Value	Unit	
Reverse Voltage	V _R	30	Volts	
Forward Power Dissipation	P _F			
@ T ^A = 25°C		225	mW	
Derate above 25°C		1.8	mW/°C	
Operating Junction	Τ _J			
Temperature Range		-55 to +125	°C	
Storage Temperature Range	T _{stg}	-55 to +150	°C	

ELECTRICAL CHARACTERISTICS (T $_A$ = 25°C unless otherwise noted) (EACH DIODE)

Characteristic	Symbol	Min	Тур	Max	Unit
Reverse Breakdown Voltage (I _R = 10 μA)	$V_{(BR)R}$	30	_	_	Volts
Total Capacitance (V _R = 1.0 V, f = 1.0 MHz)	Ст	_	7.6	10	pF
Reverse Leakage (V _R = 25 V)	I _R	_	0.5	2.0	μAdc
Forward Voltage (I _F = 0.1 mAdc)	V _F	_	0.22	0.24	Vdc
Forward Voltage (I _F = 30 mAdc)	V _F	_	0.41	0.5	Vdc
Forward Voltage (I _F = 100 mAdc)	V _F	_	0.52	1.0	Vdc
Reverse Recovery Time ($I_F = I_R = 10 \text{ mAdc}, I_{R(REC)} = 1.0 \text{ mAdc}$) Figure 1	t m	_	_	5.0	ns
Forward Voltage (I _F = 1.0 mAdc)	V _F	_	0.29	0.32	Vdc
Forward Voltage (I _F = 10 mAdc)	V _F	_	0.35	0.40	Vdc