Preliminary Information 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 0.75 Volts (Typ) @ IF = 10 mAdc



BAS70LT1

Motorola Preferred Device

MAXIMUM RATINGS (TJ =	150°C unless otherwise noted)
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Rating	Symbol	Value			Unit	
Reverse Voltage	VR	70			Volts	
Forward Power Dissipation @ T _A = 25°C Derate above 25°C	PF	225 1.8			mW mW/°C	
Operating Junction and Storage Temperature Range	T _{J,} T _{stg}	-55 to +150			°C	
DEVICE MARKING						
BAS70LT1 = BE						
ELECTRICAL CHARACTERISTICS (T _A = 25°C unless otherwise noted)						
Characteristic		Symbol	Min	Max	Unit	
Reverse Breakdown Voltage (I _R = 10 μA)		V _(BR) R	70	—	Volts	
Total Capacitance (V _R = 0 V, f = 1.0 MHz)		CT	—	2.0	pF	
Reverse Leakage ($V_R = 50 V$) ($V_R = 70 V$)		I _R	_	0.1 10	μAdc	
Forward Voltage (IF = 1.0 mAdc)		VF	—	410	mVdc	
Forward Voltage (I _F = 10 mAdc)		VF	—	750	mVdc	
Forward Voltage (I _F = 15 mAdc)		٧ _F	_	1.0	Vdc	

30

CATHODE

Preferred devices are Motorola recommended choices for future use and best overall value.