

**BAS70WS** SCHOTTKY DIODES

SOD-323

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FEATURES

- LOW Turn-on Voltage
- Fast Switching
- PN Junction Guard for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material –UL Recognition Flammability Classification 94V-O

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25

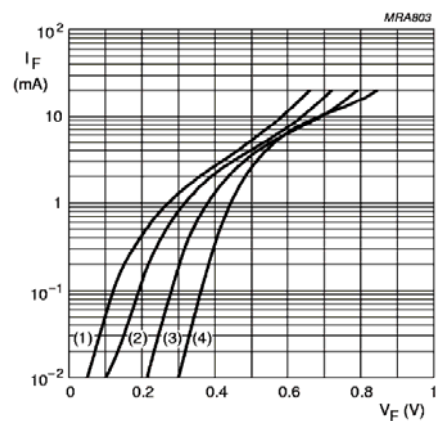
Parameter Symbol		Limits	Unit
Peak Repetitive Peak reverse voltage	V _{RRM}	70	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Forward Continuous Current	I _F	70	mA
Peak forward surge current @<1.0s	I _{FSM}	100	mA
Power Dissipation	P _d	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	625	°C/W
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}			0.41	V	I _F =1mA
	V _{F2}			1	V	I _F =15mA
Reverse current	I _R			120	nA	V _R =50V
Capacitance between terminals	C _T			2	pF	V _R =0V, f=1MHz
Reverse Recovery Time	t _{rr}			5	ns	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω

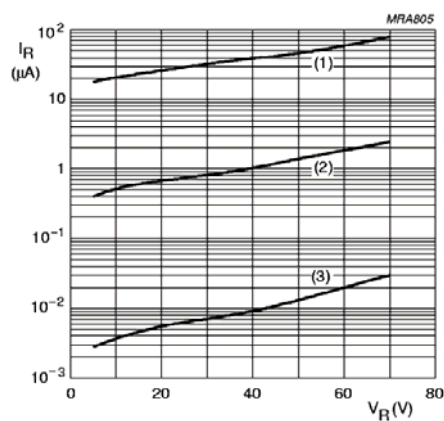
Typical Characteristics

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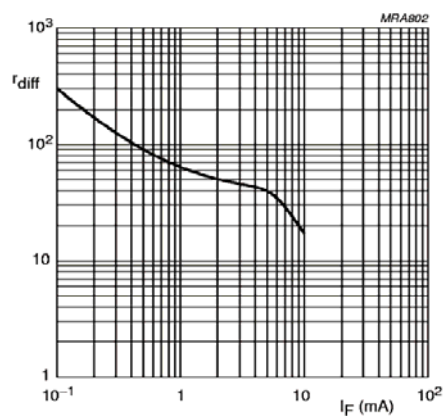
- (1) $T_{amb} = 125\text{ }^{\circ}\text{C}$.
 (2) $T_{amb} = 85\text{ }^{\circ}\text{C}$.
 (3) $T_{amb} = 25\text{ }^{\circ}\text{C}$.
 (4) $T_{amb} = -40\text{ }^{\circ}\text{C}$.

Forward current as a function of forward voltage; typical values.



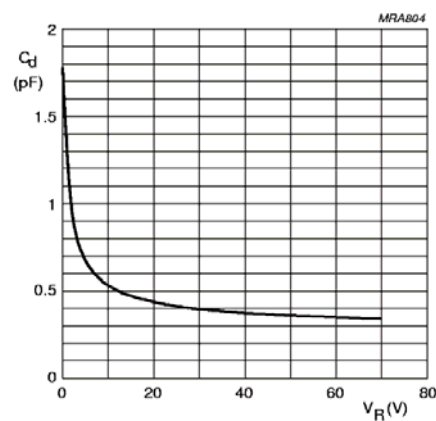
- (1) $T_{amb} = 125\text{ }^{\circ}\text{C}$.
 (2) $T_{amb} = 85\text{ }^{\circ}\text{C}$.
 (3) $T_{amb} = 25\text{ }^{\circ}\text{C}$.

Reverse current as a function of reverse voltage; typical values.



$f = 10\text{ kHz}$.

Differential forward resistance as a function of forward current; typical values.



$f = 1\text{ MHz}$; $T_{amb} = 25\text{ }^{\circ}\text{C}$.

Diode capacitance as a function of reverse voltage; typical values.