

SOT-23 Plastic-Encapsulate Switching Diode

Features

- High Current Capability
- Low Forwaroltage Drop
- Extremely Fast Switching Speed

Mechanical Data

- •SOT-23 Small Outline Plastic Package
- •Epoxy UL: 94V-0
- •Mounting Position: Any





Marking:



SOT-23

Pin definition

Epuivalent circuit

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F	\searrow
1	T
	2

3	BAS70	B AS70-04	BAS70-05	BAS70-06
-	MARKING: 73	MARKING: 74	MARKING: 75	MARKING: 76
J.				

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	70	V
Peak Repetitive Reverse Voltage	V _{RRM}	70	V
Power Dissipation	P _D	200	mW
Typical thermal resistance	$R_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	500	°C/W
Junction Temperature	TJ	125	°C
Storage temperature range	T _{STG}	-55-+150	°C
Non-repetitive Peak Forward Current	I _{FM}	70	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I _{FSM}	100	mA

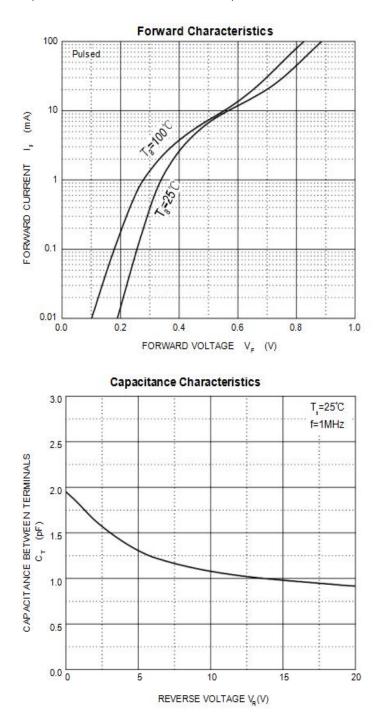
Electrical Specifications(TA=25°C unless otherwise noted)					
Parameter	Symbol	Test Conditions	Limits		Unit
			Min	Max	0
Reverse Voltage	$V_{(BR)}$	IR=10uA	70		V
Forward Voltage	V _F	IF=1mA		0.41	V
		IF=15mA		1.0	V
Reverse Leakage Current	I _R	VR=50V		100	nA
Typical junction capacitance	CJ	VR=0V, f=1MHZ		2	pF
Typical reverse recovery time	Trr	IF=IR=10mA RL=100Ω IRR=0.1 X IR		5	nS

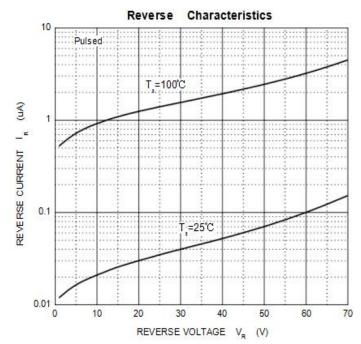


BAS70-04-05-06 GOOD-ARKElectronics

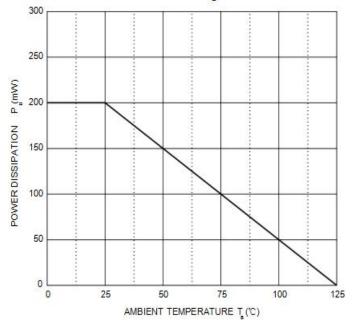
Ratings and Characteristics Curves

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$





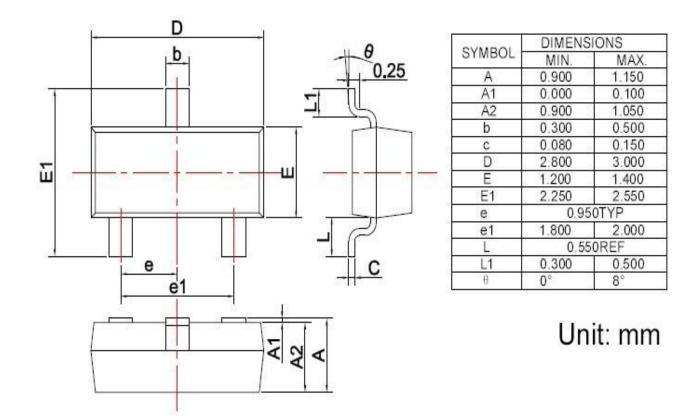
Power Derating Curve





Package Outline Dimensions

in inches (millimeters)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2018.05.06	First issue



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