

SOT-23 Plastic-Encapsulate Switching Diode

Features

• High Current Capability

• Low Forwaroltage Drop

• Extremely Fast Switching Speed



Marking:



SOT-23

Mechanical Data

•SOT-23 Small Outline Plastic Package

●Epoxy UL: 94V-0

Mounting Position: Any

Pin definition

Epuivalent circuit



BAS70	B AS70-04	BAS70-05	BAS70-06	
MARKING: 73	MARKING: 74	MARKING: 75	MARKING: 76	
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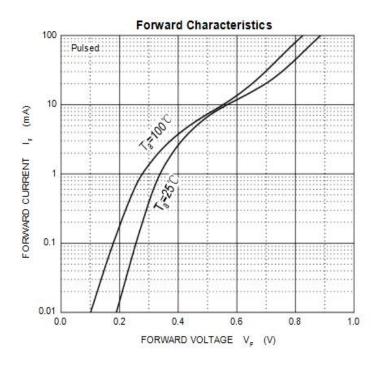
Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)					
Parameter	Symbol	Value	Unit		
Reverse Voltage	V _R	70	V		
Peak Repetitive Reverse Voltage	V_{RRM}	70	V		
Power Dissipation	P _D	200	mW		
Typical thermal resistance	R _{eJA}	500	°C/W		
Junction Temperature	TJ	125	$^{\circ}$ C		
Storage temperature range	T _{STG}	-55-+150	$^{\circ}$ C		
Non-repetitive Peak Forward Current	I _{FM}	70	mA		
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I _{FSM}	100	mA		

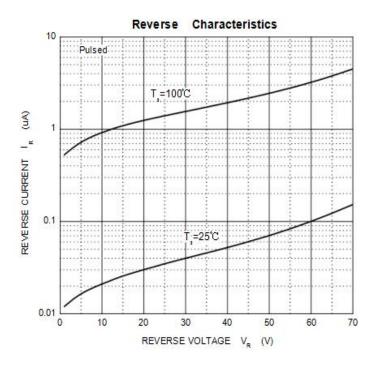
Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	Limits		Unit		
			Min	Max	Oilit		
Reverse Voltage	$V_{(BR)}$	IR=10uA	70		V		
Forward Voltage	V _F	IF=1mA		0.41	V		
		IF=15mA		1.0	V		
Reverse Leakage Current	I _R	VR=50V		100	nA		
Typical junction capacitance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

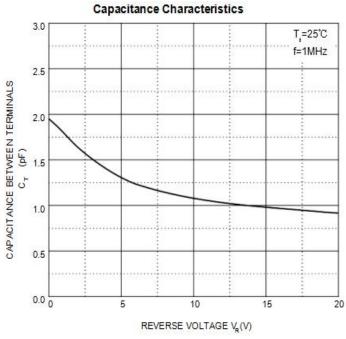


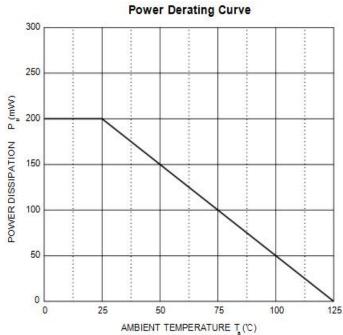
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





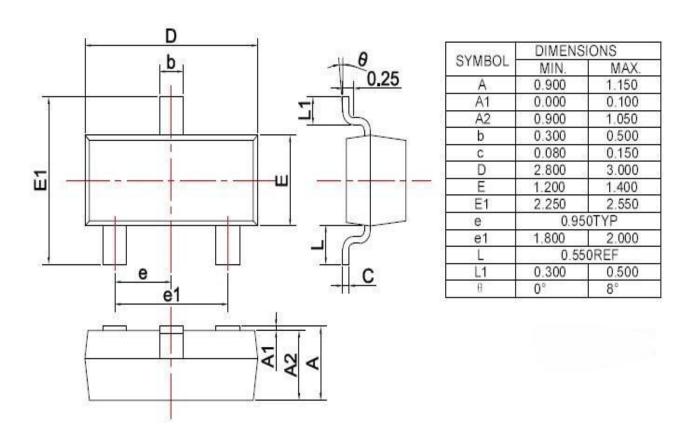






Package Outline Dimensions

millimeters



Revision History

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



GOOD-ARK Electronics

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