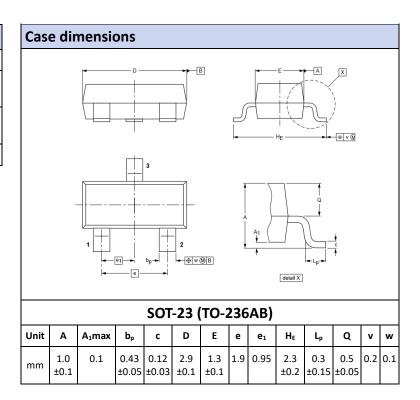


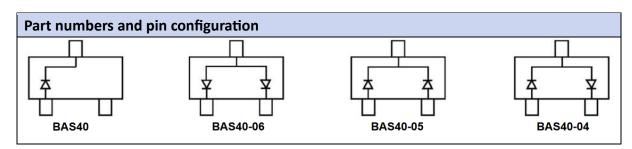
SMD Schottky Barrier Diode

Primary characteristics					
Parameter	Symbol	Value	Unit		
Peak repetitive reverse voltage	V _{RRM}	40	V		
Continuous Forward Current	I _{FM}	200	mA		
Power Dissipation	P _D	200	mW		

Features

- **SOT-23** case for easy automatic insertion.
- Pb-free and RoHS compliant
- Low forward voltage
- Fast switching



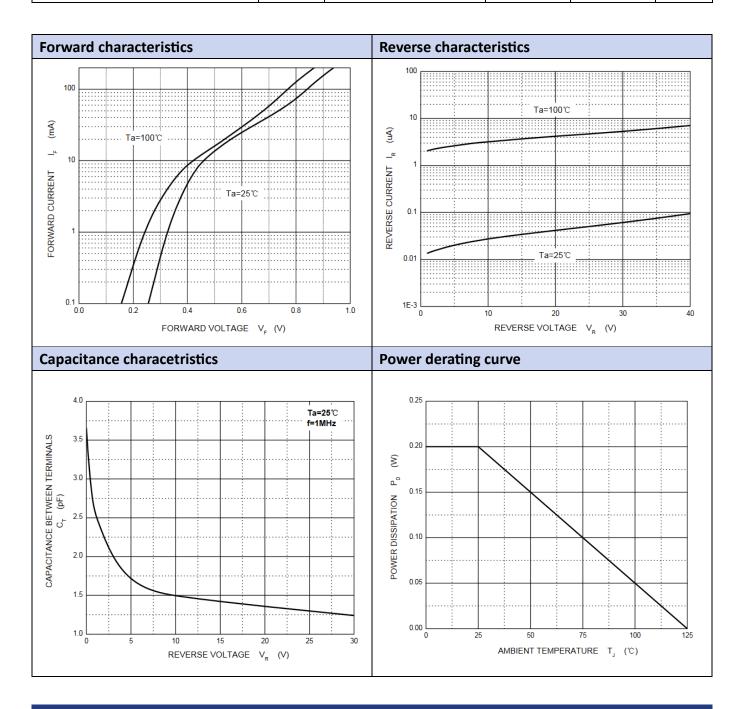


Maximum ratings and electrical characteristics (T _a = 25°C)				
Characteristics	Symbol	Value Typ.	Unit	
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	40	V	
Forward continuous current	I _{FM}	200	mA	
Average rectified output current	I ₀	200	mA	
Non-repetitive peak forward surge current @t=8.3ms	I _{FSM}	600	mA	
Power dissipation	P _D	200	mW	
Thermal resistance junction to ambient air	R _{eJA}	500	°C/W	
Operating temperature range	Tj	-40 ~ 125	°C	
Storage temperature range	T _{STG}	-55 ~ 1 50	°C	

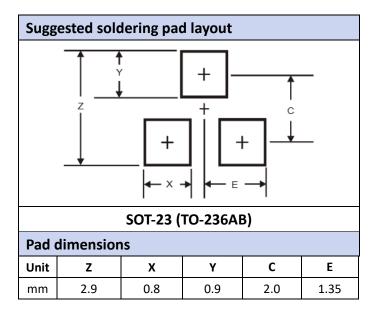
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Electrical characteristics (T _a =25°C)					
Parameter Symbol Test condition	Symphol	To at your distinguish	Value		Unit
	lest conditions	Min.	Max.		
Reverse breakdown voltage	V _{(BR)R}	I _R =10μA	40	-	V
Reverse leakage current	I _R	V _R =30V -		200	nA
Forward voltage 1)	V	I _F = 1.0mA		380	mV
	V _F	I _F = 40mA] -	1000	
Diode capacitance	Cj	V _R =0, f=1.0MHz -		5.0	pF
Reverse recovery time ²⁾	t _{rr}	I_{rr} =1.0mA, I_R = I_F =10mA, R_L =100 Ω	-	5.0	ns







Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
BAS40, BAS40-04, BAS40-05, BAS40-06	SOT-23	3000 pcs / reel	

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