GOOD-ARK Electronics

SOD- 323 Plastic-Encapsulate Schottky Barrier Diode

Features

• High Current Capability

• Low Forward Voltage Drop

Mechanical Data

SOD-323 Small Outline Plastic PackagePolarity: Color band denotes cathode end

• Epoxy UL: 94V-0

• Mounting Position: Any





Marking: SOD-323

BAT42WS: S7 BAT43WS: S8

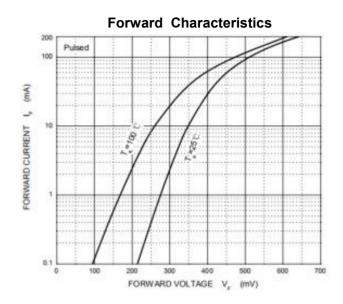
Maximum Ratings & Thermal Characteristics (T _A =25°C unless otherwise noted)				
Parameters	Symbol	Value	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	30	V	
Maximum RMS voltage	V_{RMS}	21	V	
Maximum DC blocking voltage	V_{DC}	30	V	
Non-repetitive Peak Forward Current	I _{FM}	200	mA	
Repetitive Peak Forward Current @t<1.0s	I _{FRM}	500	mA	
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	4.0	Α	
Power Dissipation	P _D	200	mW	
Typical thermal resistance	$R_{\theta JA}$	500	°C/W	
Storage temperature range	T _{STG}	-55-+150	$^{\circ}\!\mathbb{C}$	
Junction temperature	TJ	125	$^{\circ}$	

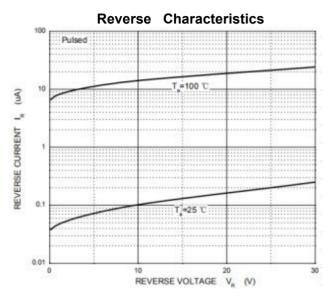
Electrical Characteristics (T _A =25°C unless otherwise noted)							
Parameter		Symbols	Test Condition	Limits			
				Min	Тур	Max	Unit
Maximum reverse breakdown voltage		VR	IR=10uA	30			V
Maximum reverse current		lR	VR=25V			0.5	uA
Maximum forward voltage	BAT42WS BAT43WS	VF	IF=200mA			1.0	V
	BAT42WS		IF=10mA			0.40	
	DA142003		IF=50mA			0.65	
	BAT43WS		IF=2.0mA	0.26		0.33	
			IF=15mA			0.45	
Type junction capacitance		Cj	VR=1.0V, f=1MHZ			10	pF
Reverse recovery time TRR		T _{RR}	IF=IR=10mA Irr=0.1xIR,RL=100 Ω			5	nS

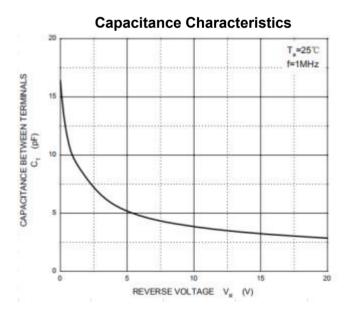


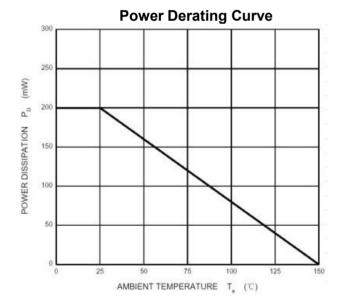
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



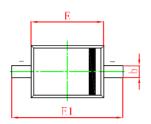


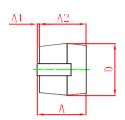


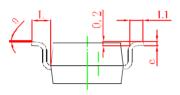


Package Outline Dimensions

millimeters







Symbol	Min	Max	
Α		1.000	
A 1	0.000	0.100	
A2	0.800	0.900	
b	0.250	0.350	
С	0.080	0.150	
D	1.200	1.400	
E	1.600	1.800	
E1	2.500	2.700	
L	0.475REF		
L1	0.250	0.400	
θ	00	80	

Revision History

Document Version	Date of release	Description of changes
Rev.A	2014.09.23	First issue

GOOD-ARK

BAT42WS-BAT43WS

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