

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

BAV16WS/1N4148WS

FAST SWITCHING DIODES

FEATURES

Fast Switching Speed Surface Mount Package Ideally Suited for Automatic Insertion For General Purpose Switching Applications High Conductance



MARKING: T6, T4

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

Parameter	Symbol	Limits	Unit		
Non-Repetitive Peak reverse voltage	V_{RM}	100	V		
Peak Repetitive Peak reverse voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	75	V		
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	53	V		
Forward Continuous Current	I _{FM}	300	mA		
Average Rectified Output Current	Io	150	mA		
Peak forward surge current @=1.0µs	1	2.0			
@=1.0s	I _{FSM}	1.0	Α		
Power Dissipation	Pd	200	mW		
Thermal Resistance Junction to Ambient	$R_{ heta JA}$	625	°C/W		
Junction temperature	Tj	125	$^{\circ}$		
Storage temperature	T _{STG}	-65~+150	$^{\circ}$		

Electrical Ratings @T_A=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _{F1}			0.715	V	I _F =1mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _{R1}			1	μA	V _R =75V
	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	Ст			2	pF	V _R =0V,f=1MHz
Reverse Recovery Time	t _{rr}			4	ns	I _F =I _R =10mA
						Irr=0.1 XI_R , R_L =100 Ω

Typical Characteristics

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