

ABS10A

Bridge Rectifier

Datasheet-production date

Features

- Glass Passivated Die Construction
- Miniature Package Saves Space on PC Boards
- High Current Capability
- Ideal for SMT Manufacturing
- Low Forward Voltage Drop
- Halogen Free and RoHS Compliant

Schematic





Dimensions (SOPA-4)



	Dimension		
Symbol	Millimeters		
	Min.	Max.	
A1	-	0.20	
A2	1.20	1.50	
b	0.50	0.70	
С	0.15	0.25	
D	4.80	5.30	
E	6.00	6.80	
E1	4.20	4.60	
e	3.80	4.20	

Maximum Ratings and Thermal Characteristics(T_A=25[°]C unless otherwise noted)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	1000	V	
RMS Reverse Voltage	V _{R(RMS)}	700	V	
Leakage Current (Note 3)@ $V_{\rm D} = 1.000V$	25 ℃	IR	5	μΑ
	125 ℃		100	
Min Reverse Breakdown Voltage (Note 3)@	V _{(BR)R}	1000	V	
Average Rectified Output Current (Note 2) (lo	1.0	А	
Max Forward Voltage@I _F = 1.0A	VF	1.1	V	
Non-Repetitive Peak Forward Surge Currer Single Half Sine-Wave Superimposed on R	I _{FSM}	35	А	
Typical Thermal Resistance, Junction to An (Per Element)	R _{0JA}	72	°C/W	
Total Capacitance $@V_R = 4V$, f = 1.0MHz	CT	13	pF	
Typical Thermal Resistance, Junction to Le	R _{ejl}	37	°C/W	
Operating and Storage Temperature Range	T _J , T _{STG}	-55~+150	°C	

Notes:

1. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.15"*0.26" copper pad.

2. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.56"*0.73" copper pad.

3. Short duration pulse test used to minimize self-heating effect.

Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)





Figure 5. Typical Total Capacitance

Reflow Soldering Parameters

