

POWER SCHOTTKY RECTIFIERS

32A Pk, up to 50V

查询USD935供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

USD935
USD940
USD945
USD950



FEATURES

- Very Low Forward Voltage (0.5V max @ 16A)
- Reverse Transient Capability
- Economical Convenient Plastic Package
- Mechanically Rugged
- 50V Blocking Voltage @ Rated T_{jmax}

DESCRIPTION

The USD900 series of Schottky barrier power rectifiers is ideally suited for output rectifiers and catch diodes in low voltage power supplies.

ABSOLUTE MAXIMUM RATINGS

	USD935	USD940	USD945	USD950
Working Peak Reverse Voltage, V_{RWM}	35V	40V	45V	50V
DC Blocking Voltage, V_R	35V	40V	45V	50V
Peak Repetitive Surge Voltage, V_{RSM} @ I_{RM}	42V	48V	54V	60V
Average Rectified Forward Current @ $T_C = 115^\circ\text{C}$, I_A	16A			
Peak Repetitive Forward Current (Rated V_R , Square Wave, 20KHz, 50% Duty Cycle, @ $T_C = 115^\circ\text{C}$), I_{FRM}	32A			
Non-repetitive Peak Surge Current (8.3ms), I_{FSM}	250A			
Peak Reverse Transient Current, I_{RM}	2A			
Operating Junction Temperature, T_J	150°C			
Storage Temperature Range, T_{stg}	-55°C to +150°C			
Thermal Resistance, Junction to Case, R_{JC}	2°C/W			

ELECTRICAL CHARACTERISTICS ($T_{CASE} = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	LIMIT	UNITS	CONDITIONS
Maximum Instantaneous Reverse Current	i_R	20	mA	$V_R = V_{RWM}$ Pulse Width = 400 μs Duty Cycle = 1 percent
Typical Instantaneous Reverse Current	i_R	50	mA	$V_R = V_{RWM}$ Pulse Width = 400 μs Duty Cycle = 1 percent $T_C = 125^\circ\text{C}$
Maximum Instantaneous Forward Voltage	V_F	0.6	V	$I_F = 16\text{A}$
		0.53	V	$I_F = 16\text{A}$ $T_C = 125^\circ\text{C}$
Capacitance	C_t	2000	pF	$V_R = 5\text{V}$
Voltage Rate of Change	dv/dt	1000	V/ μs	$V_R = V_{RWM}$

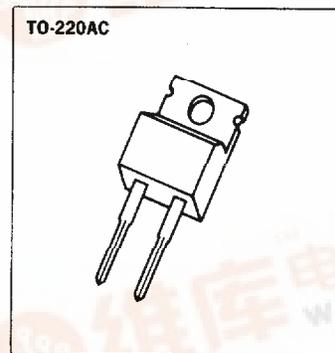
MECHANICAL SPECIFICATIONS

SEATING PLANE

PIN 1. Cathode
2. Anode
Tab is connected to Cathode.

USD900 SERIES

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	14.23	15.87	0.560	0.625
B	9.66	10.66	0.380	0.420
C	3.56	4.82	0.140	0.190
D	0.51	1.14	0.020	0.045
F	3.531	3.733	0.139	0.147
G	2.29	2.79	0.090	0.110
H	—	6.35	—	0.250
J	0.38	0.64	0.015	0.025
K	12.70	14.27	0.500	0.562
L	1.14	1.27	0.045	0.070
N	4.83	5.33	0.190	0.210
Q	2.54	3.04	0.100	0.120
R	2.04	2.92	0.080	0.115
S	1.14	1.39	0.045	0.055
T	5.85	6.85	0.230	0.270



Microsemi Corp.
Watertown
The diode experts



