



Shanghai Lunsure Electronics
Technology Co.,Ltd
Tel:0086-21-37185008
Fax:0086-21-57152769

**1H1
THRU
1H7**

**1.0 Amp High
Efficient Rectifier
50 - 1000 Volts**

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 60°C/W Junction To Case
18°C/W Junction To Ambient

Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1H1	---	50V	35V	50V
1H2	---	100V	70V	100V
1H3	---	200V	140V	200V
1H4	---	400V	280V	400V
1H5	---	600V	420V	600V
1H6	---	800V	560V	800V
1H7	---	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 1H1-4 1H5 1H6-1H7	V_F	1.0V 1.3V 1.7V	$I_{FM} = 1.0\text{A};$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 150uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Maximum Reverse Recovery Time 1H1-1H5 1H6-1H7	T_{rr}	50ns 75ns	$I_F=0.5\text{A}, I_R=1.0\text{A}$ $I_{RR}=0.25\text{A}$
Typical Junction Capacitance 1H1-1H5 1H6-1H7	C_J	20pF 15pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

