

# Surface mount 400V 1.0A Ultra-fast-recovery rectifier diode

## SFPL-64

### Absolute maximum ratings

Parameter	Ratings	Unit	Conditions
V <sub>RM</sub>	400	V	
I <sub>F(AV)</sub>	1.0	A	T <sub>c</sub> =120°C, sinewave
I <sub>FSM</sub>	25	A	Half Sinewave 10ms. One Shot
I <sup>2</sup> t	3.125	A <sup>2</sup> s	
T <sub>j</sub>	-40 to +150	°C	
T <sub>stg</sub>	-40 to +150	°C	
R	100	MΩ	Between Lead and side surface of plastic body *1

\*1: Surface of plastic body except for leads

### Electrical characteristics

(T<sub>a</sub>=25°C)

Parameter	Ratings	Unit	Conditions
V <sub>F</sub>	1.3max	V	I <sub>F</sub> =1.0A
I <sub>R</sub>	10max	μA	V <sub>R</sub> =V <sub>RM</sub>
H.I <sub>R</sub>	50max	μA	T <sub>j</sub> =150°C, V <sub>R</sub> =V <sub>RM</sub>
trr 1	50max	ns	I <sub>F</sub> =I <sub>RP</sub> =100mA, 90% Recovery Point
trr 2	30max	ns	I <sub>F</sub> =100mA, I <sub>RP</sub> =200mA, 70% Recovery Point
R <sub>th(j-l)</sub>	20max	°C/W	Between Junction and Lead

