SSL545F SMAF

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 45V

Forward Current - 5 A

Pinning

1.Cathode	2.Anode



SMAF

YFW SL545

FEATURES

Metal silicon junction, majority carrier conduction

For surface mounted applications

Low power loss, high efficiency

High forward surge current capability

For use in low voltage, high frequency inverters,

free wheeling, and polarity protection applications

Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: SMAF

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 27mg /0.00095oz

Absolute Maximum Ratings and Electrical characteristics
Ratings at 25 ° ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SSL545F	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	32	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage at 5 A	V_F	0.45	V
Maximum Instantaneous Reverse Current T_A = 25°C at Rated DC Reverse Voltage T_A = 100°C	I_R	0.5	mA
Typical Junction Capacitance [1]	C_j	700	pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	50	°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Fig.2 Typical Reverse Characteristics

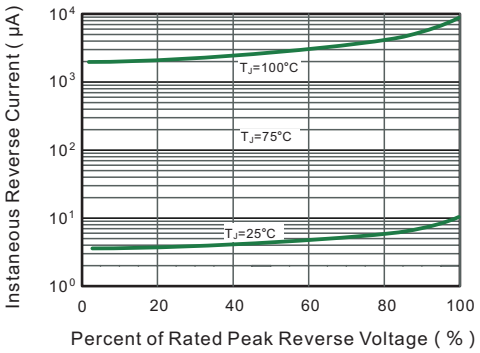

Fig.3 Typical Forward Characteristic

Instaneous Forward Current (A)

In

Fig.4 Typical Junction Capacitance

Junction Capacitance (pF)

Reverse Voltage (V)

	Tape/Reel,13”reel	10000PCS/Reel 100000PCS/Carton
	Tape/Reel,7”reel	3000PCS/Reel 120000PCS/Carton

	A	0.9	1.1	35	43
	C	0.12	0.2	l	نم

