Elektronische Bauelemente

SM345FL

3A, 45V

Schottky Barrier Rectifiers

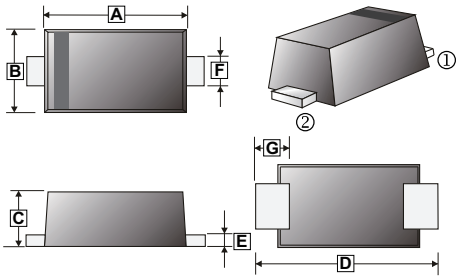
RoHS Compliant Product

A suffix of “-C” specifies halogen & lead-free

FEATURES

- Ideal for surface mounted applications
- Built in strain relief
- Fast Switching speed

SOD-123FL



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.60	3.10	E	0.05	0.30
B	1.60	2.00	F	0.80	2.0
C	0.81	1.55	G	0.8 (Typ.)	
D	3.50	3.90			

MECHANICAL DATA

- Case: JEDEC SOD-123FL, molded plastic over passivated chip
- Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

MARKING

T34

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123FL	3K	7 inch

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Rating	Unit
Maximum Recurrent Reverse Voltage		V_{RRM}	45	V
Maximum RMS Voltage		V_{RMS}	31.5	V
Maximum DC Blocking Voltage		V_{DC}	45	V
Maximum Instantaneous Forward Voltage@ I_F=3A, 25℃		V_F	0.43	V
Maximum Average Forward Rectified Current		I_F	3	A
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	0.5	mA
	T_A=100℃		25	
Peak Forward Surge Current@ 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	30	A
Typical Junction Capacitance [1]		C_J	355	pF
Typical Thermal Resistance from Junction to Case		$R_{\theta JC}$	50	℃/ W
Operating Junction and Storage Temperature Range		T_J, T_{STG}	150, -55~150	℃

Notes:

1. Measured at 1MHZ and applied 4V DC reverse voltage.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-Typical Forward Current Derating Curve

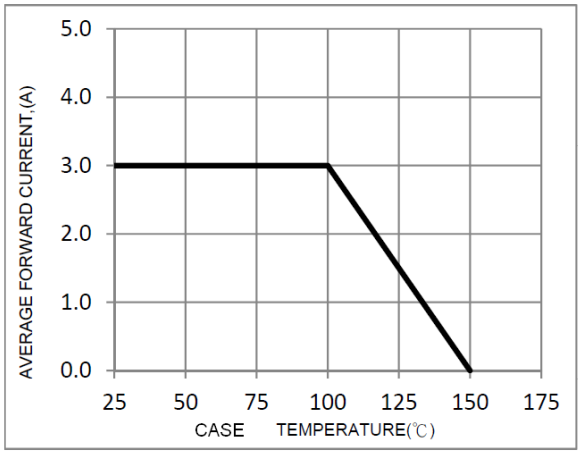


FIG. 2-Typical Forward Characteristics

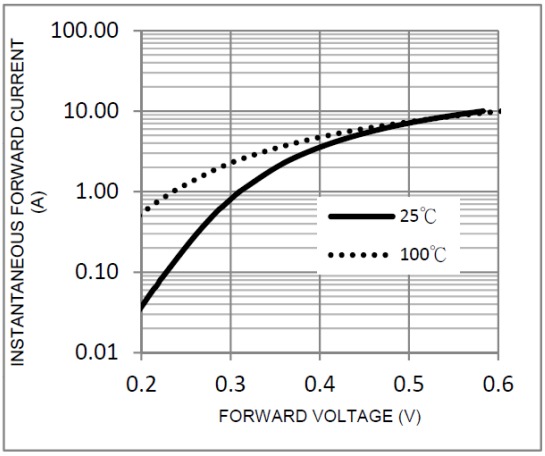


FIG. 3-Maximum Non-Repetitive Forward Surge Current

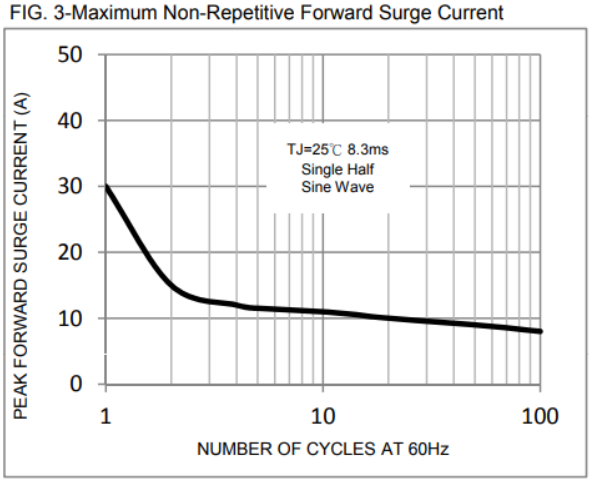


FIG. 4-Typical Reverse Characteristics

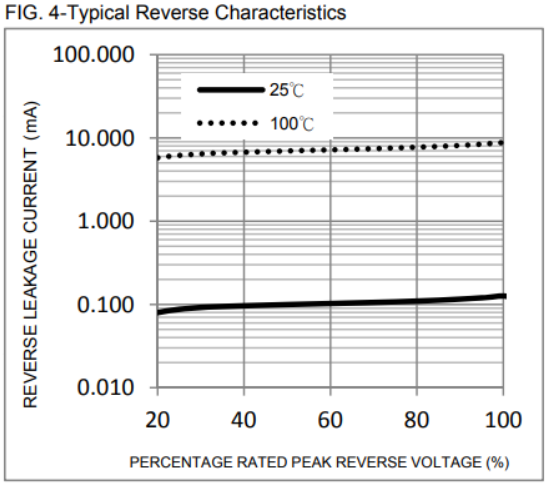


FIG. 5-Typical Junction Capacitance