

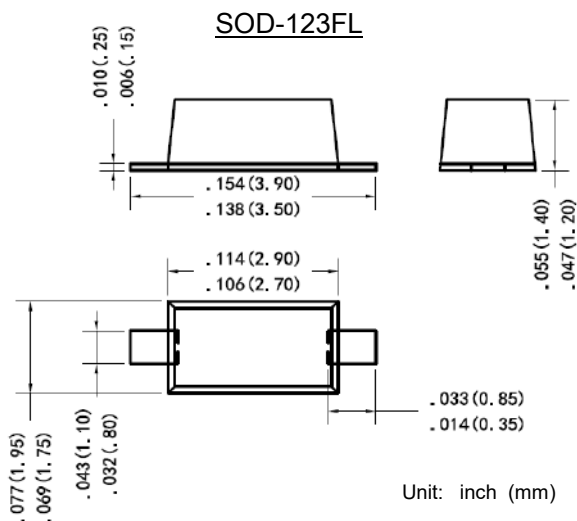
Surface Mounted Low VF Trench Schottky Barrier Rectifiers

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed: 260°C/10 秒
260°C/10seconds
- Lead and body according with RoHS standard

Mechanical Data

- Case:SOD-123FL Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free
- System: Accreditation through IATF16949 System
- High reliability grade (AEC Q101qualified)



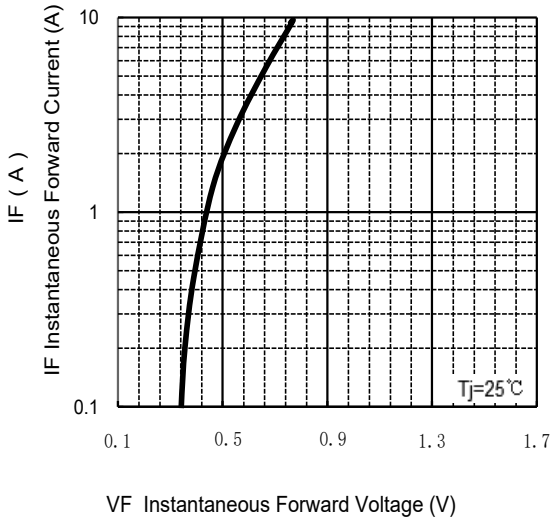
Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	KWDSK14L-V	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum average forward rectified current	$I_{F(AV)}$	1.0	A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	30	A
Maximum forward voltage @ $I_F=1.0A$	V_F	0.42	V
Maximum reverse current $T_a=25^{\circ}C$ $T_a=100^{\circ}C$	I_R	1000 20	μA mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	180 55	$^{\circ}C/W$
VR=4.0V,f=1MHz Type junction capacitance	C_J	130	pF
Operating junction	T_J	-55 --- +125	$^{\circ}C$
Storage temperature rang	T_{STG}	-55 --- +150	$^{\circ}C$

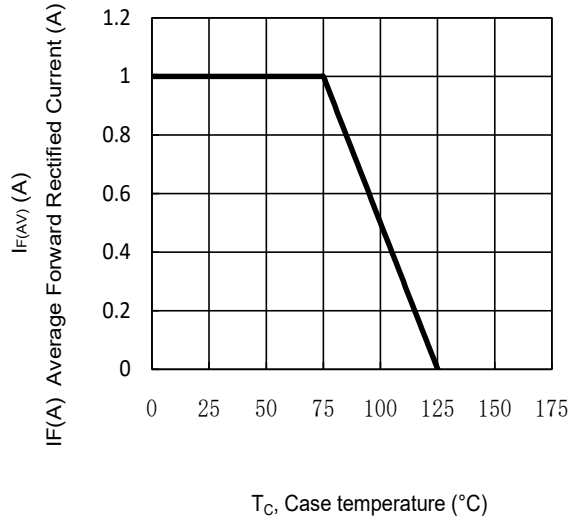
Note:

- 1) Thermal resistance from junction to ambient , PCB mounted.

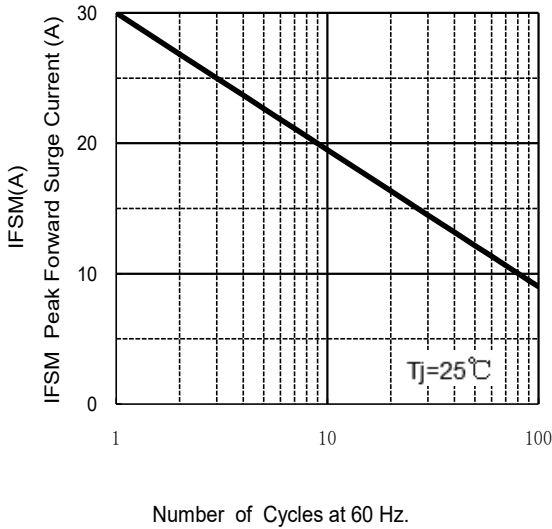
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics

