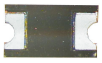
Elektronische Bauelemente

SCDF103 THRU SCDF107

VOLTAGE 200V ~ 1000V

1.0 AMP Glass Passivated Fast Recovery Rectifier

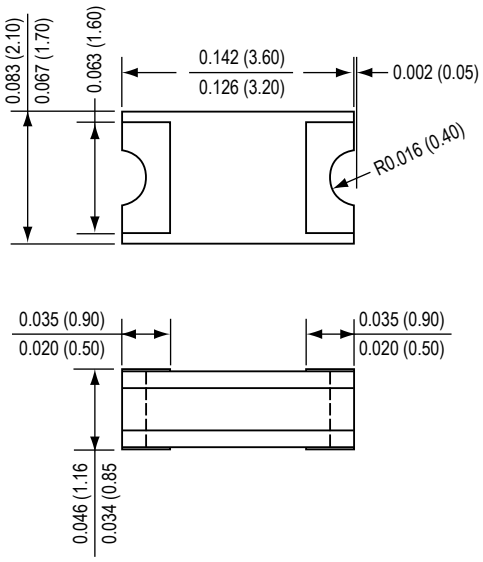
A suffix of "-C" indicates halogen-free & RoHS Compliant



1206 (SOD-123)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier , majority carrier conduction
- Low power loss , High efficiency
- High current capability
- High surge capacity
- RoHS Compliant Product



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled
Terminals : Solder plated , solderable per MIL-STD-750, Method 2026
Polarity : Laser marking
Weight : 0.02 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25℃ ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOLS	SCDF103	SCDF104	SCDF105	SCDF106	SCDF107	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RMS}	200	400	600	800	1000	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	1					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30					A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.3					V
Maximum DC Reverse Current Ta=25℃ at Rated DC Blocking Voltage Ta=125℃	I_R	1 30					uA
Maximum reverse recovery time	Trr	250			300		nS
Typical Junction Capacitance (Note 1.)	Cj	15					pF
Operating Temperature Range	T_J	-50 ~ +125					℃
Storage Temperature Range	T_{STG}	-65 ~ +150					℃

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Marking:
   - SCDF103 : 37ZD
   - SCDF104 : 37ZG
   - SCDF105 : 37ZJ
   - SCDF106 : 37ZK
   - SCDF107 : 37ZM

http://www.SeCoSGmbH.com/ *Any changing of specification will not be informed individual*

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FIG.1 - FORWARD CURRENT DERATING CURVE

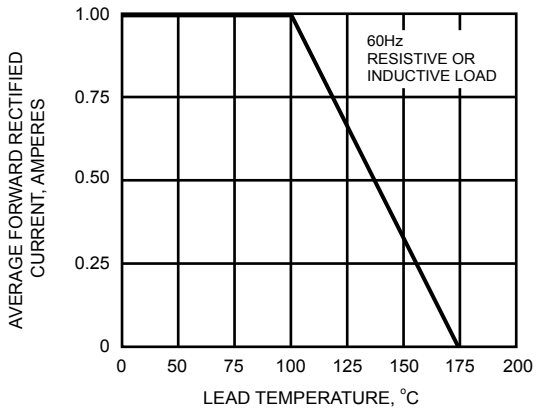

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

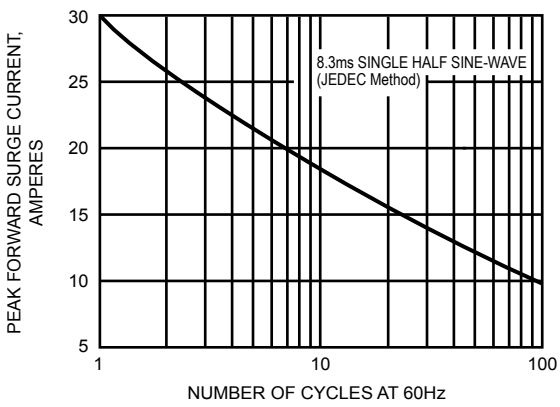

FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

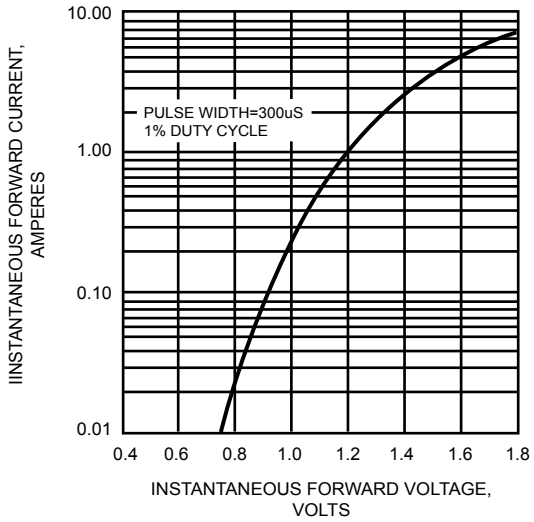

FIG.4 - TYPICAL REVERSE CHARACTERISTICS

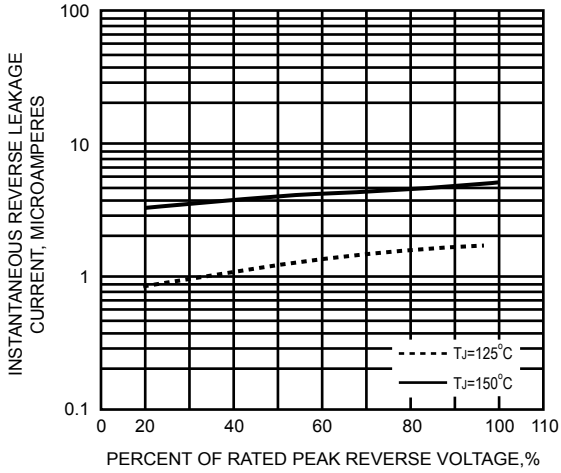

FIG.5 - TYPICAL JUNCTION CAPACITANCE