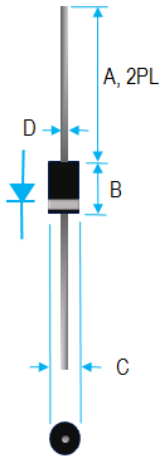
SR15L06 SPECIFICATION

Rev. A

15A LOW V_F TRENCH MOS SCHOTTKY RECTIFIERS



Dim.	Value Inch[mm] Min.	Max.
A	1.000[25.40]	---
B	0.335[8.51]	0.375[9.52]
C	0.197[5.00]	0.220[5.59]
D	0.048[1.22]	0.052[1.32]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. EXTREMELY LOW VF
3. TRENCH MOS SCHOTTKY TECHNOLOGY
4. LOW POWER LOSS / HIGH EFFICIENCY
5. HIGH FREQUENCY OPERATION
6. CASE：TRANSFER MOLDED DO-201AD
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
9. WEIGHT: 1.2 GRAMS
10. RoHS (SUFFIX –LF)/RoHS+HALOGEN FREE (SUFFIX –LG)
    i.e. SR15L06-LF: RoHS COMPLIANT
    SR15L06-LG: RoHS COMPLIANT & HALOGEN FREE

ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS (T_A =25°C UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	60	VDC
MAXIMUM RMS VOLTAGE	V_{RMS}	42	VAC
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	60	VDC
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1	I_O	15	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	200	A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO +175	°C
OPERATING TEMPERATURE RANGE	T_J	- 55 TO +150	°C
MAXIMUM FORWARD VOLTAGE AT I_F= 15A T_J = 25°C	V_F	0.55	V
T_J =125°C		0.53	
TYPICAL FORWARD VOLTAGE AT I_F= 10A T_J = 25°C		0.50	
T_J =125°C		0.48	
MAXIMUM REVERSE CURRENT AT 25°C (NOTE 1)	I_R	0.1	mA
MAXIMUM REVERSE CURRENT AT 125°C (NOTE 1)	I_R	15	mA
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R\theta ja$	25	°C/W

NOTE： 1. PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE.
2. BOTH LEADS ATTACHED TO HEATSINK AT LEAD LENGTH 5mm.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-FORWARD CURRENT DERATING CURVE

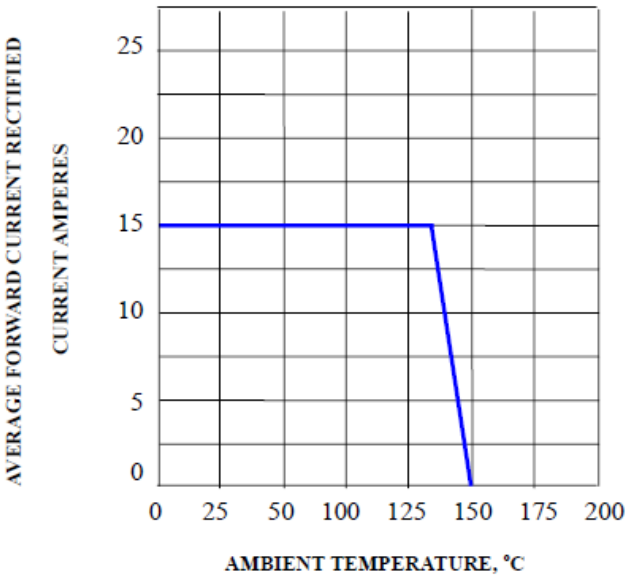


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

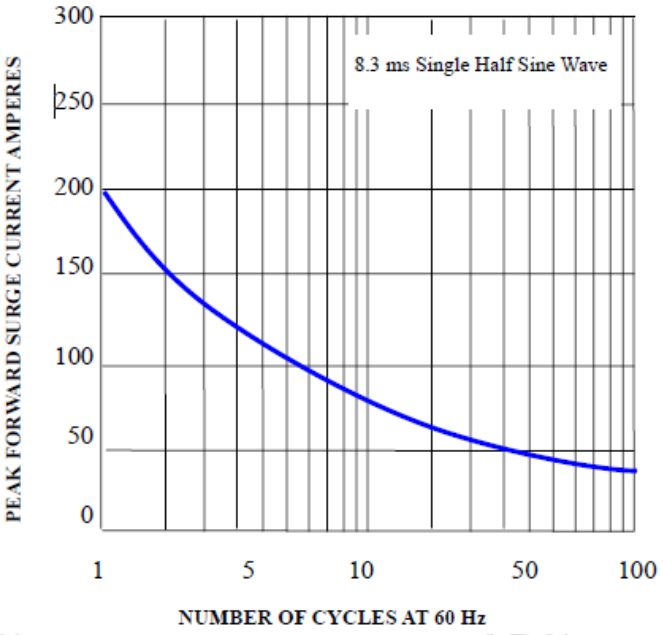


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

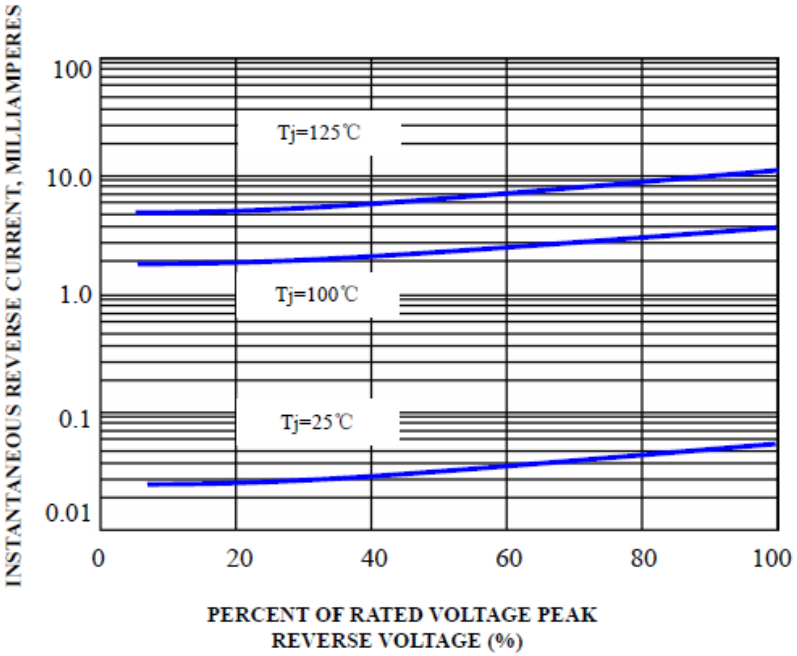


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS