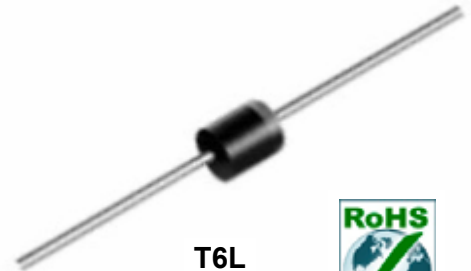


10 Amp Silicon Rectifiers

Features

- Low forward voltage drop
- high current capability
- High forward surge current capability
- High reliability
- High temperature soldering guaranteed 260°C/10 seconds
/.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant



T6L



Mechanical Data

Case:	T6L, molded plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202G, Method 208
Polarity:	Cathode indicated by color band
Weight:	0.07 Ounce, 2.1 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	T10A 05L	T10A 10L	T10A 20L	T10A 40L	T10A 60L	T10A 80L	T10A 100L	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
IF(AV)	Maximum Average Forward Rectified Current	10							A	Note 1
IFSM	Peak Forward Surge Current	600							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +125							°C	

10 Amp Silicon Rectifiers

T10A05L~ T10A100L

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	T10A 05L	T10A 10L	T10A 20L	T10A 40L	T10A 60L	T10A 80L	T10A 100L	Unit	Conditions
V_F	Maximum Forward Voltage	1.0							V	IF at 10 A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	$T_A=25^{\circ}\text{C}$
		400								$T_A=100^{\circ}\text{C}$
C_J	Typical Junction Capacitance	100							pf	$V_R=4\text{V}$, $f=1\text{MHz}$
$R_{\theta\text{-JA}}$	Maximum Thermal Resistance	10							$^{\circ}\text{C/W}$	Note 2

- Note:** 1. 60Hz, resistive or inductive load. Derate current by 20% for capacitive load
 2. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

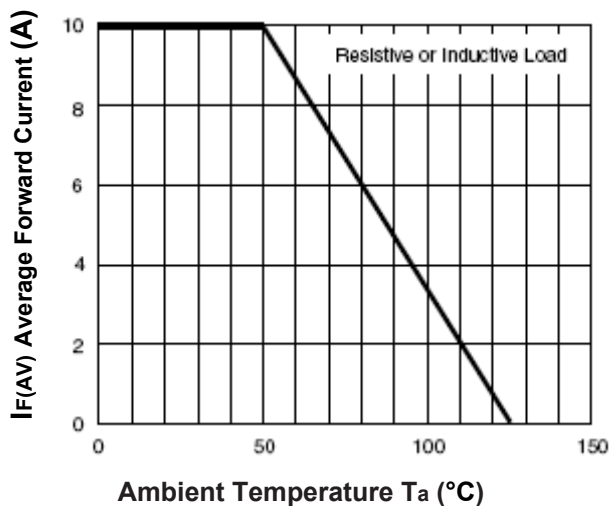


Fig.1- Forward Current Derating Curve

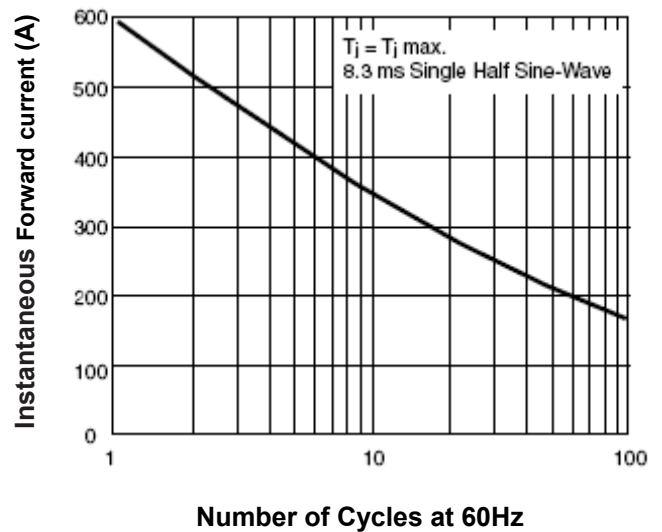


Fig.2- Max. Non-Repetitive Forward Surge Current

10 Amp Silicon Rectifiers

T10A05L~ T10A100L

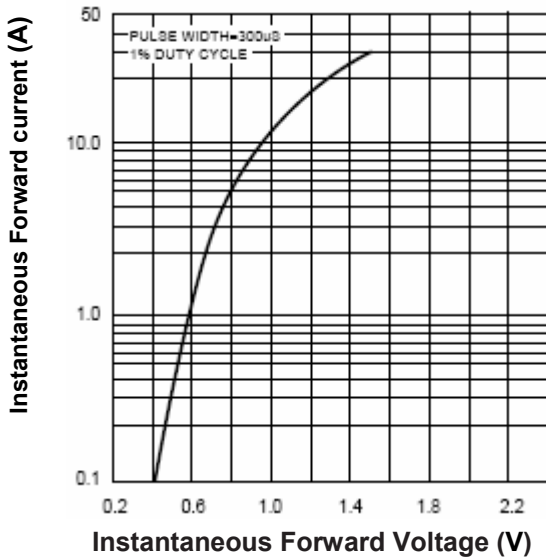


Fig.3-Typical Instantaneous Forward Characteristics

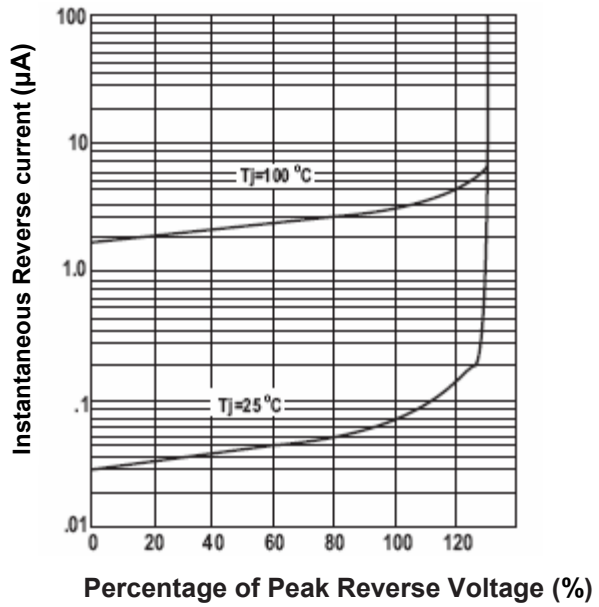
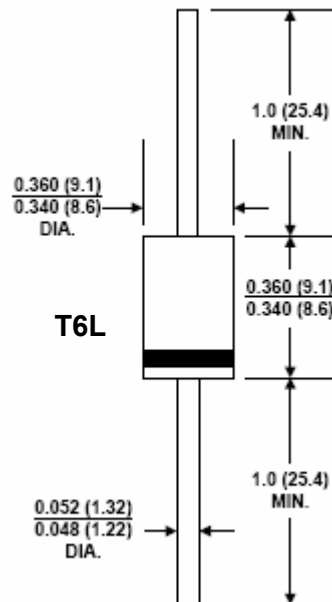


Fig.4- Typical Reverse Characteristics

Dimensions in inches (mm)



10 Amp Silicon Rectifiers

T10A05L~ T10A100L

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