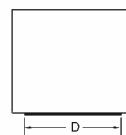
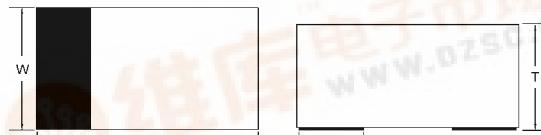


# TSS54L

0.2Amp Surface Mount Schottky Barrier Diode

1005

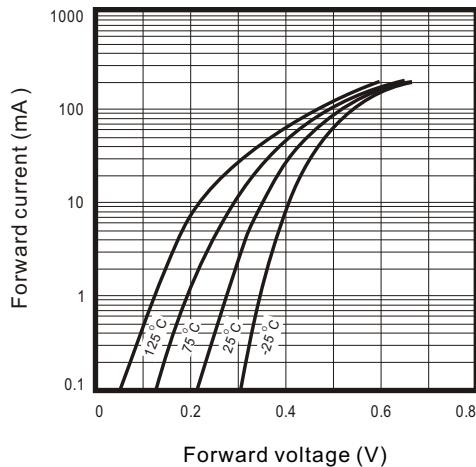
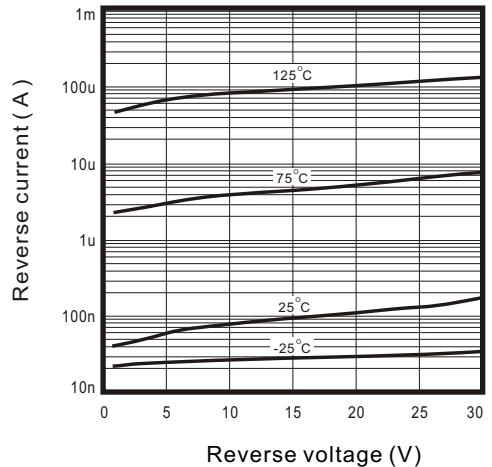
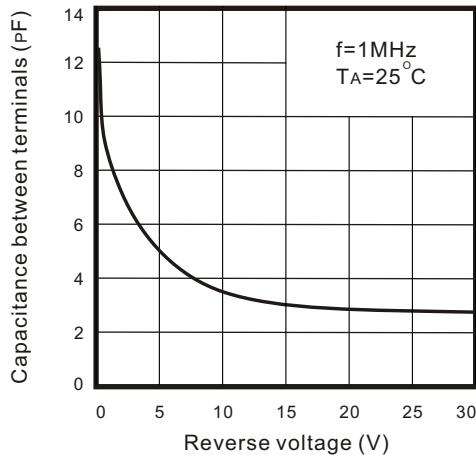


ITEM	1005
L	0.102(2.60) 0.095(2.40)
W	0.051(1.30) 0.043(1.10)
T	0.035(0.90) 0.027(0.70)
C	0.020(0.50) Typical
D	0.040(1.00) Typical

Dimensions in inches and (millimeters)

Maximum Ratings  $T_A=25^{\circ}\text{C}$  unless otherwise specified

Type Number	Symbol	1005	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Reverse Voltage	$V_R$	30	V
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Average Forward Current	$I_O$	200	mA
Repetitive Peak Forward Current	$I_{FRM}$	0.3	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	600	mA
Power Dissipation	$P_d$	200	mW
Forward Voltage $IF=0.1\text{mA}$ $IF=1\text{mA}$ $IF=10\text{mA}$ $IF=30\text{mA}$ $IF=100\text{mA}$	$V_F$	0.24 0.32 0.4 0.5 1.0	V
Reverse Leakage Current $VR=25\text{V}$	$I_R$	2	uA
Typical capacitance between terminals $VR=1\text{V}$ , $f =1.0\text{MHz}$ reverse voltage	$C_J$	10	pF
Reverse Recovery Time ( $IF=IR=10\text{mA}$ , $Irr=0.1 \times IR$ , $RL=100\Omega$ )	$T_{rr}$	5	nS
Junction Temperature	$T_J$	-65 to + 125	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-65 to + 125	$^{\circ}\text{C}$

**RATINGS AND CHARACTERISTIC CURVES(TSS54L)**
**Fig. 1 - Forward characteristics**

**Fig. 2 - Reverse characteristics**

**Fig.3 - Capacitance between terminals characteristics**

**Fig.4 - Current derating curve**
