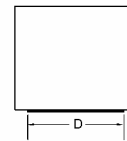
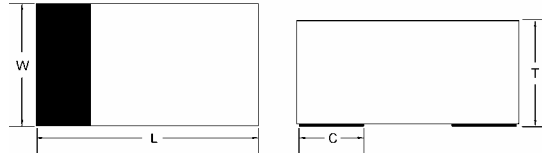
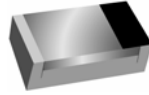


# TSS0230U

## 0.2Amp Surface Mount Schottky Barrier Diode

**0603**



### Features

- ✧ Designed for mounting on small surface
- ✧ Extremely thin/leadless package
- ✧ Low capacitance
- ✧ Low forward voltage drop
- ✧ High temperature soldering:  
260°C/10 seconds at terminals
- ✧ Chip version in 0603

### Mechanical Data

- ✧ Case: 0603 Standard package, molded plastic
- ✧ Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- ✧ Polarity: Indicated by cathode band
- ✧ Mounting position: Any
- ✧ Package code: BB
- ✧ Weight: 0.003 gram (approximately)

ITEM	0603
L	0.071(1.80)
	0.063(1.60)
W	0.039(1.00)
	0.031(0.80)
T	0.033(0.85)
	0.027(0.70)
C	0.018(0.45)
	Typical
D	0.028(0.70)
	Typical

Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical characteristics

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

Type Number	Symbol	0603	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	35	V
DC Reverse Voltage	$V_R$	30	V
Average Forward Current	$I_O$	200	mA
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	1.0	A
Power Dissipation	$P_d$	150	mW
Forward Voltage @ $I_F=200mA$	$V_F$	0.6	V
Reverse Leakage Current $V_R=10V$	$I_R$	1.0	$\mu A$
Typical capacitance between terminals $V_R=1V, f=1.0MHz$ reverse voltage	$C_J$	1.5	pF
Junction Temperature	$T_J$	-40 to + 125	°C
Storage Temperature	$T_{STG}$	-40 to + 125	°C

Fig. 1 - Forward characteristics

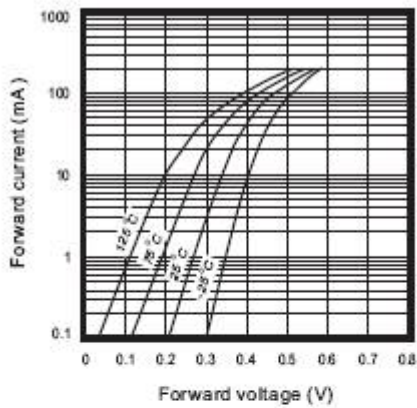


Fig. 2 - Reverse characteristics

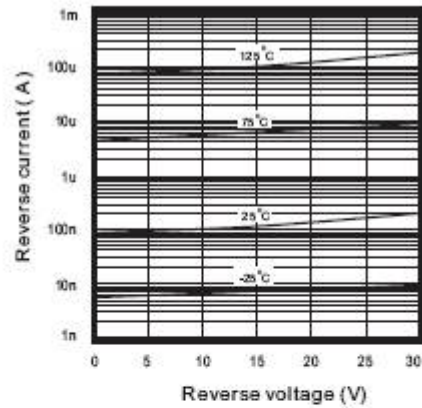


Fig. 3 - Capacitance between terminals characteristics

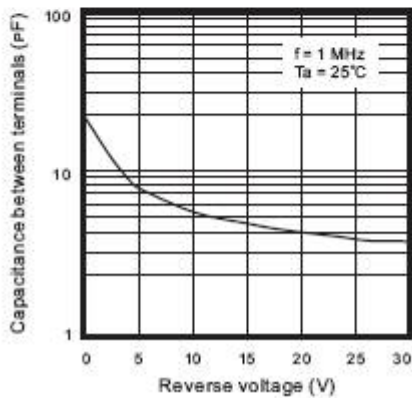


Fig. 4 - Current derating curve

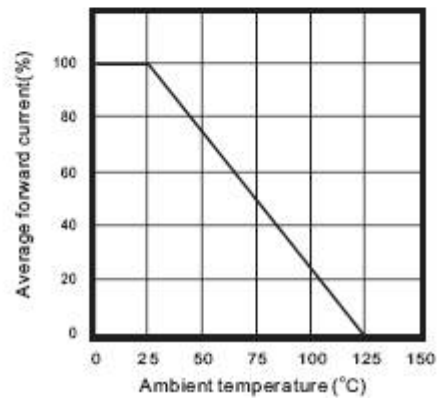


Fig. 5 - VF Dispersion map

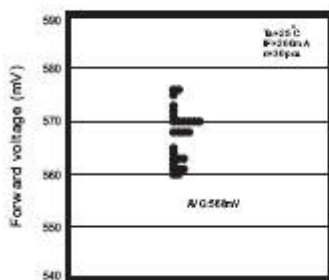


Fig. 6 - IR Dispersion map

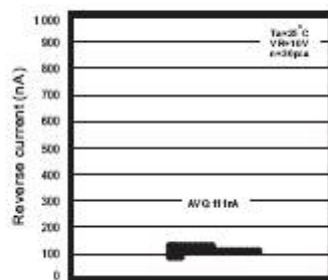


Fig. 7 - CT Dispersion map

