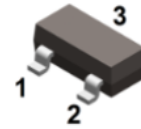
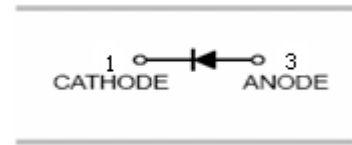




### FEATURES

- Low Equivalent On Resistance
- Extremely Low Leakage (20uA @30V)
- High current capability ( $I_F = 1.16A$ )
- Low VF, Fast switching Schottky
- ZLLS1000 complements low temperature equivalent ZHCS1000
- Package thermally rated to 150°C



**SOT-23**

### APPLICATIONS

- DC - DC Converters
- Stobes
- Mobile Phones
- Charging Circuits
- Motor control

### ORDERING INFORMATION

Type No.	Marking	Package Code
ZLLS1000	L10	SOT-23

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit	
Continuous reverse voltage	$V_R$	40	V	
Forward Current	$I_F$	1.16	A	
Peak Repetitive Forward Current Rectangular Pulse Duty Cycle	$I_{FPK}$	1.88	A	
Non Repetitive Forward Current	$I_{FSM}$	$t \leq 100\mu s$	22	A
		$t \leq 10ms$	6.4	A
Power Dissipation	$P_d$	625	mW	
Junction to ambient (a)	$R_{\theta JA}$	200	°C/W	
Junction to ambient (b)	$R_{\theta JA}$	149	°C/W	
Junction temperature	$T_j$	150	°C	
Storage temperature range	$T_{stg}$	-55 to +150	°C	

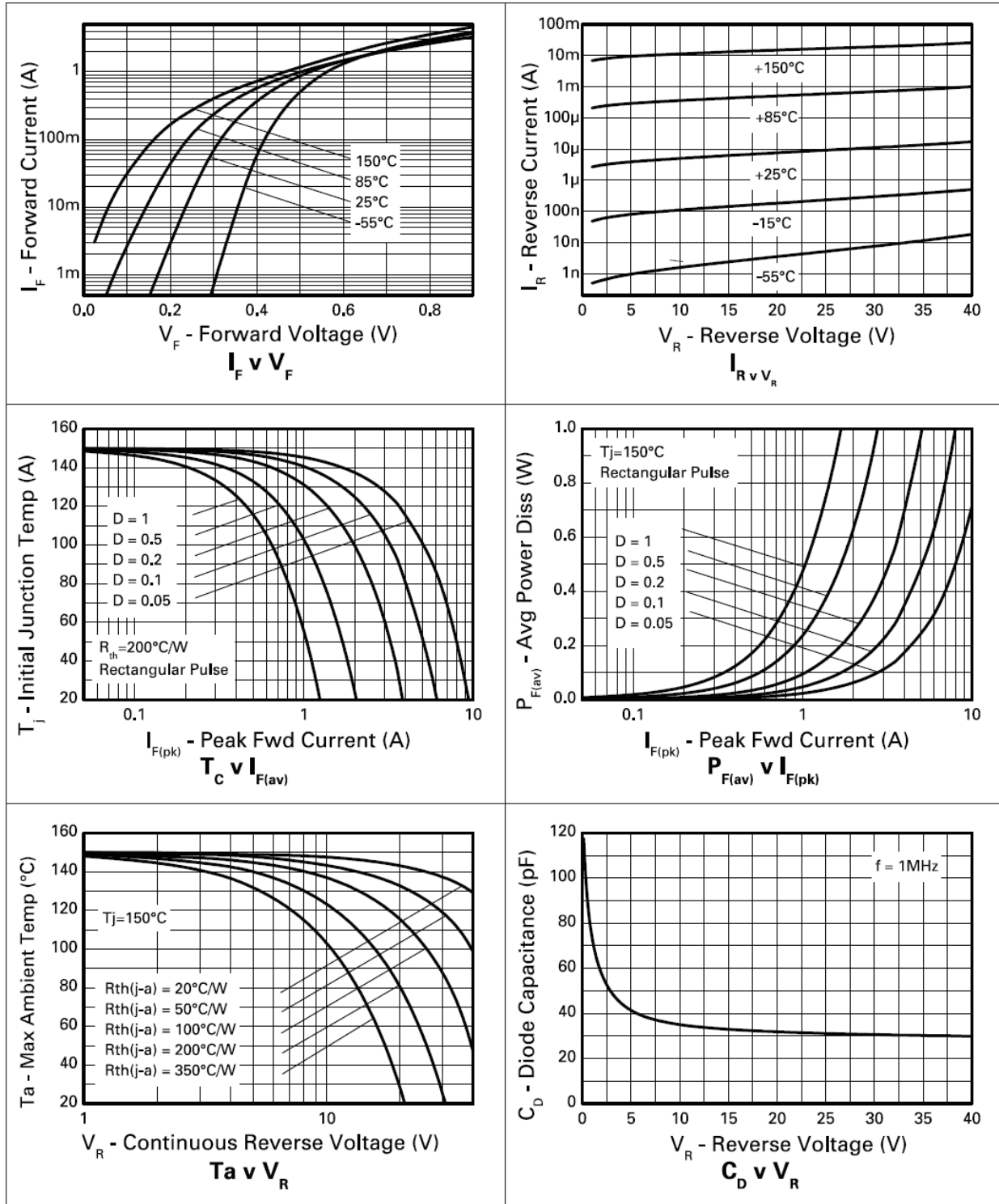


### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	Typ.	MAX	UNIT
Reverse Breakdown voltage	$V_{(BR)R}$	$I_R=500\mu A$	40			
Reverse voltage leakage current	$I_R$	$V_R=30V$			20	$\mu A$
Forward voltage	$V_F$	$I_F=50mA$ $I_F=100mA$ $I_F=250mA$ $I_F=400mA$ $I_F=750mA$ $I_F=1000mA$ $I_F=1500mA$			310 340 390 460 510 560 660	mV
Total capacitance	$C_D$	$V_R=30V, f=1MHz$		31		pF
Reverse recovery time	$t_{rr}$	$I_F=500mA, V_R=5V, R_L=6\Omega$		2.58		ns



### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

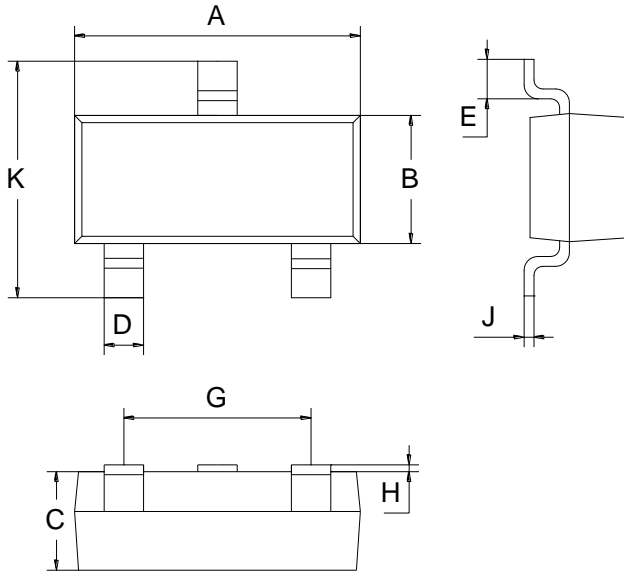




### PACKAGE OUTLINE

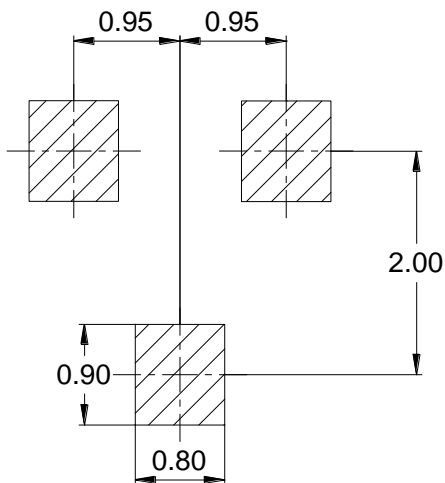
Plastic surface mounted package

SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

### SOLDERING FOOTPRINT



Unit: mm

### PACKAGE INFORMATION

Device	Package	Shipping
ZLLS1000	SOT-23	3000 pcs / Tape & Reel