



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO.,LTD

## SOT-23 Plastic-Encapsulate Diodes

### MC2838 SWITCHING DIODE

#### FEATURES

Power dissipation

$P_D$  : 150 mW ( Tamb=25 )

Forward Current

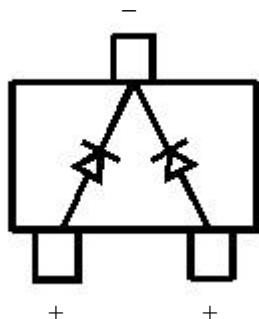
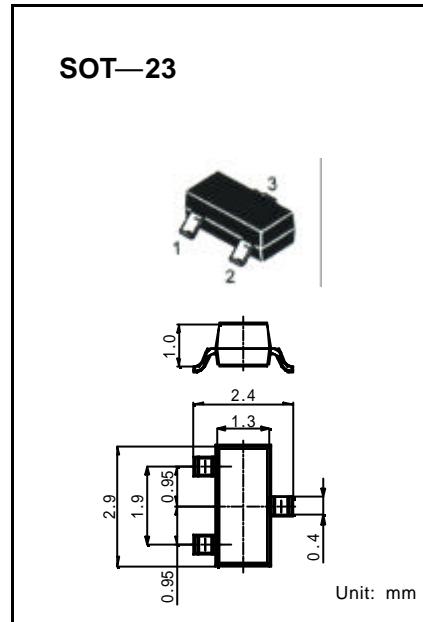
$I_F$  : 300 mA

Reverse Voltage

$V_R$ : 50 V

Operating and storage junction temperature range

$T_J$ ,  $T_{stg}$ : -55 to +150

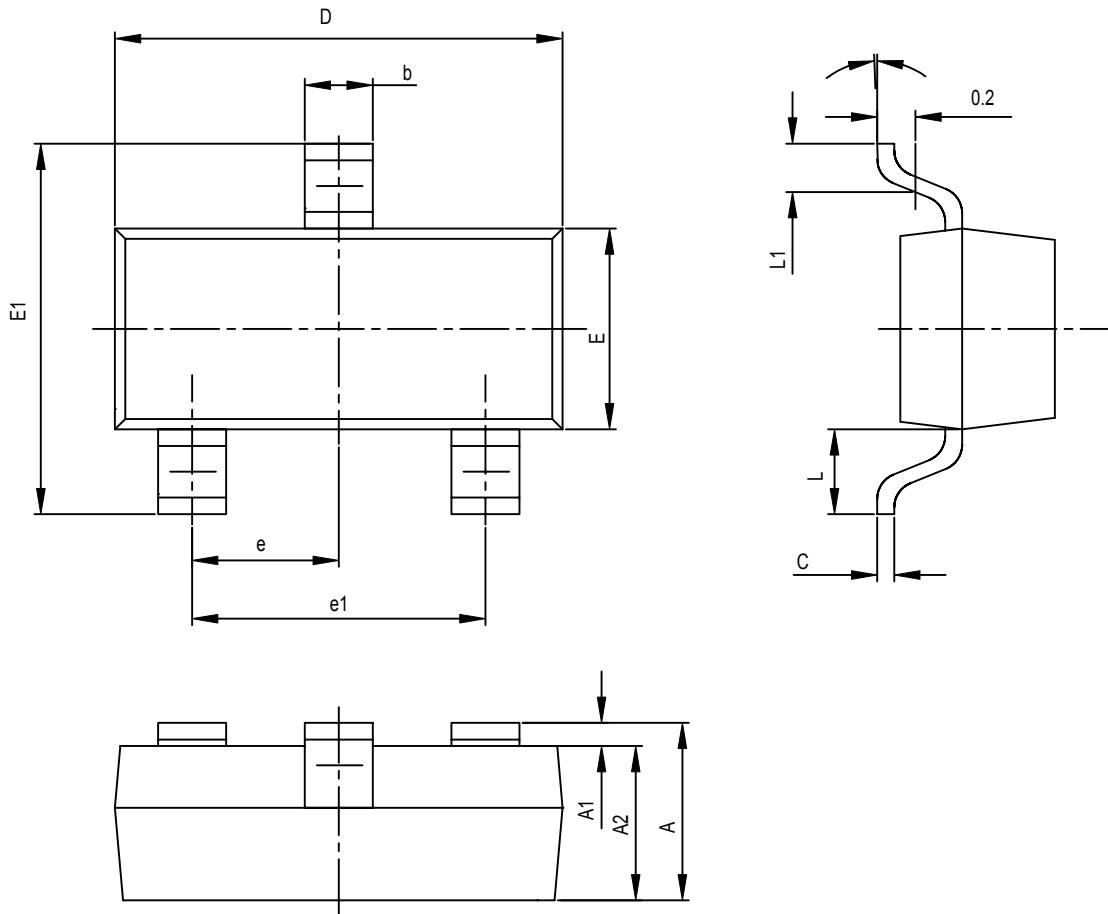


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#### ELECTRICAL CHARACTERISTICS ( Tamb=25 unless otherwise specified )

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100 \mu A$	50		V
Reverse voltage leakage current	$I_R$	$V_R=50V$		0.1	$\mu A$
Forward voltage	$V_F$	$I_F=10mA$ $I_F=50mA$ $I_F=100mA$		0.9 1 1.2	V
Diode capacitance	$C_D$	$V_R=0V$ $f=1MHz$		4	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA, I_{RR}=0.1 \times I_R$		3	nS

## SOT-23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TPY		0.037TPY	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
$\theta$	$0^\circ$	$8^\circ$	$0^\circ$	$8^\circ$