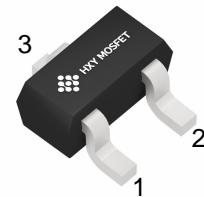




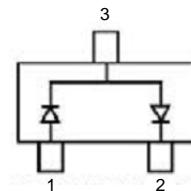
## Features

Extremely Fast Switching Speed

Low forward voltage



**SOT-323**



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
CMSSH-3S BK PBFREE	SOT-323	KL8	3000

## Maximum Ratings (Ta=25°C unless otherwise noted)

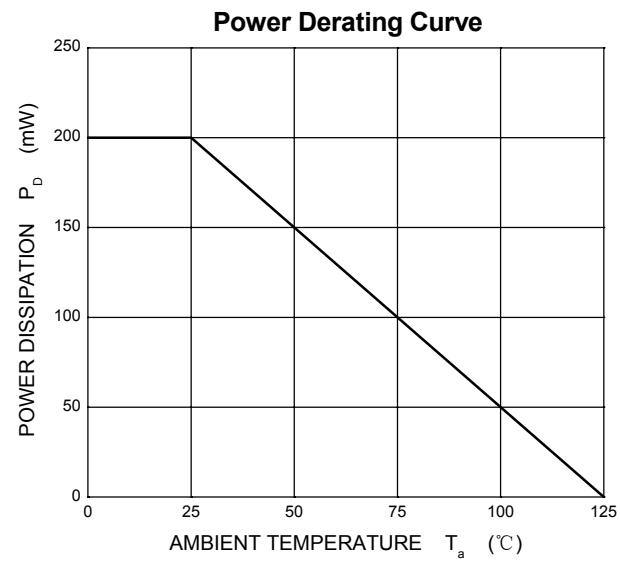
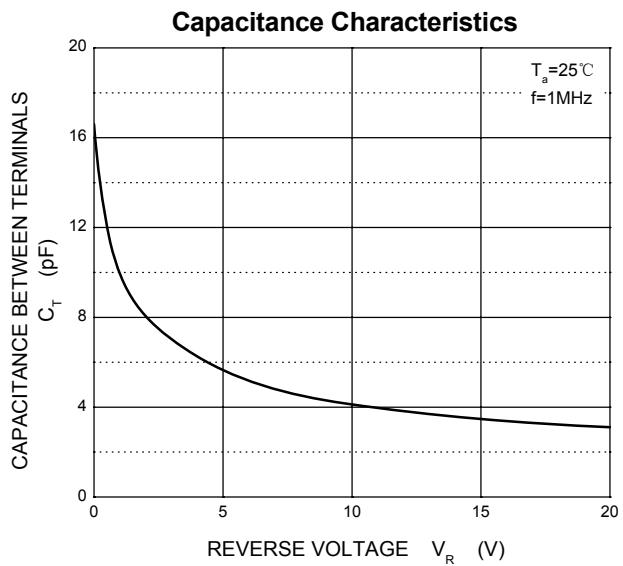
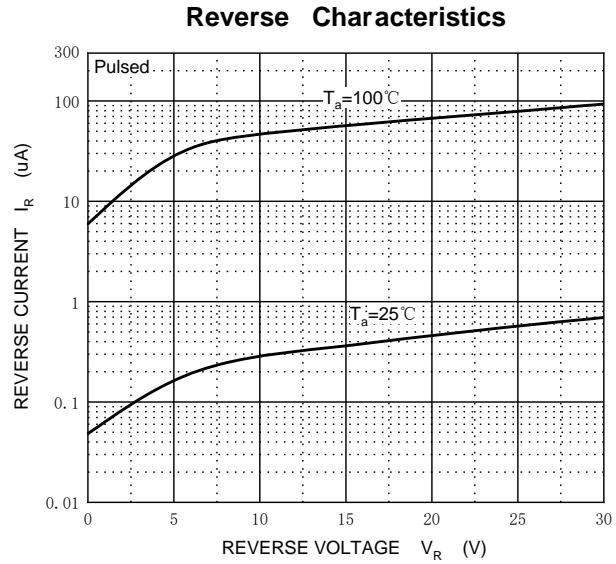
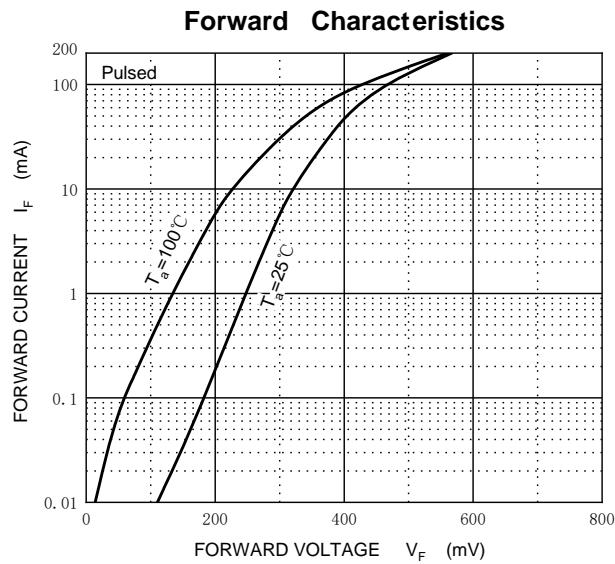
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>		
Voltage Working Peak Reverse	V <sub>RWM</sub>	30	V
Voltage DC Blocking Voltage	V <sub>R</sub>		
Forward Continuous Current	I <sub>FM</sub>	200	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	600	mA
Repetitive Peak Forward Current @ t≤1s,δ≤0.5	I <sub>FRM</sub>	300	mA
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	500	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-40 ~ +125	°C
Storage Temperature Range	T <sub>stg</sub>	-55 ~ +150	°C

## Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA	30		V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =25V		2	μA
Forward voltage	V <sub>F</sub>	I <sub>F1</sub> =0.1mA		0.24	V
		I <sub>F2</sub> =1mA		0.32	V
		I <sub>F3</sub> =10mA		0.40	V
		I <sub>F4</sub> =30mA		0.50	V
		I <sub>F5</sub> =100mA		1	V
Diode capacitance	C <sub>D</sub>	V <sub>R</sub> =1V,f=1MHz		10	pF
Reverse recovery time	t <sub>rr</sub>	IF=IR=10mA Irr=0.1×IR,RL=100Ω		5	ns

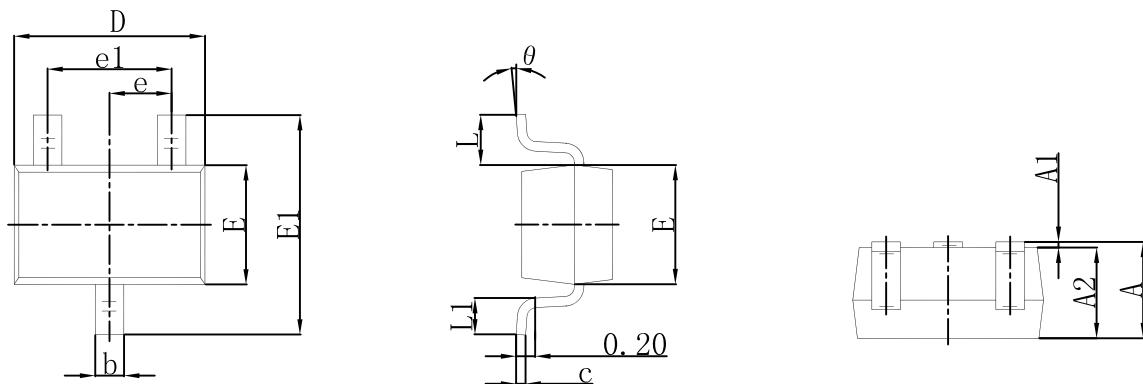


## Typical Characteristics





### SOT-323 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	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
K	0°	8°	0°	8°



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