



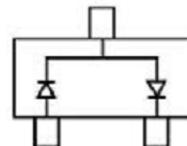
Features

Extremely Fast Switching Speed

Low forward voltage



SOT-323



Package Marking and Ordering Information

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

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

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

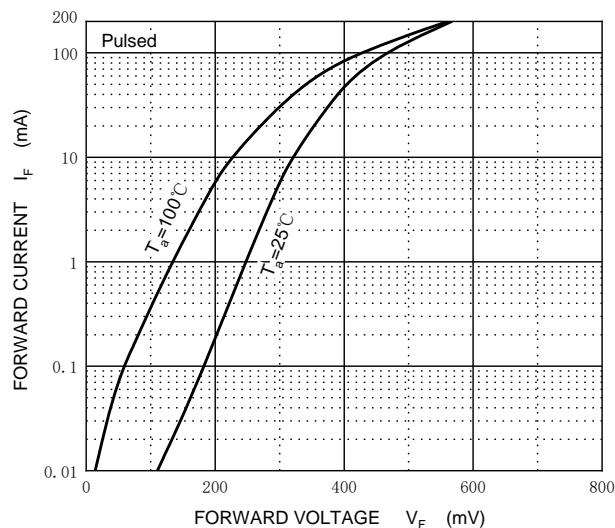
Electrical Characteristics (Ta=25°C unless otherwise noted)

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

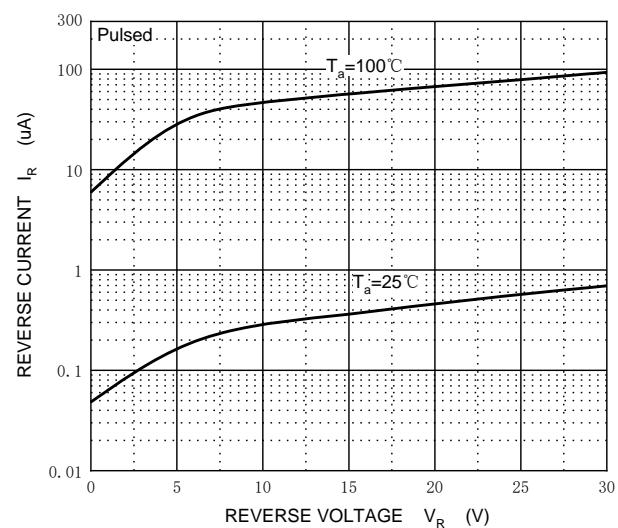


Typical Characteristics

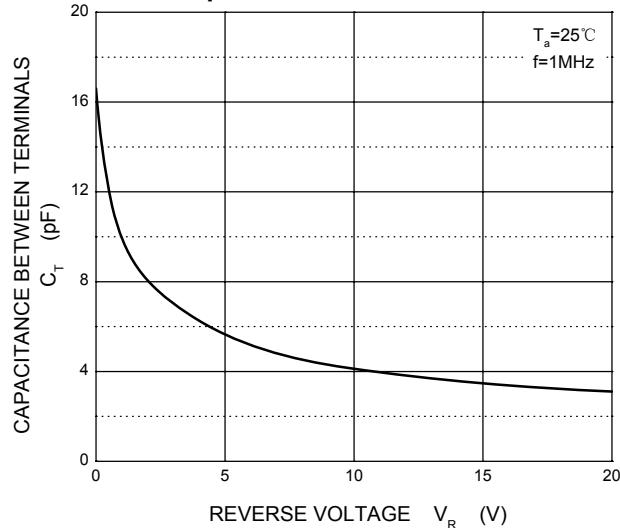
Forward Characteristics



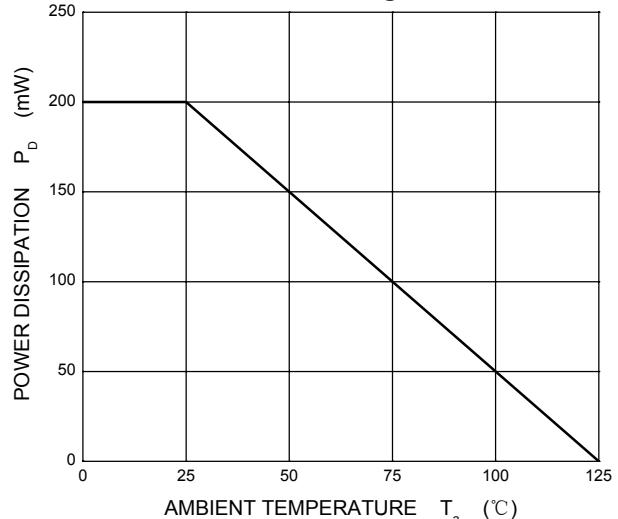
Reverse Characteristics



Capacitance Characteristics

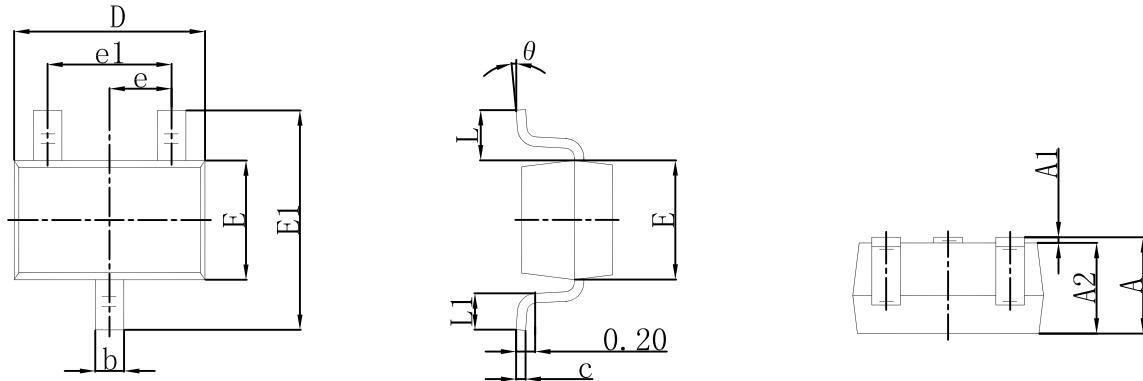


Power Derating Curve





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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