

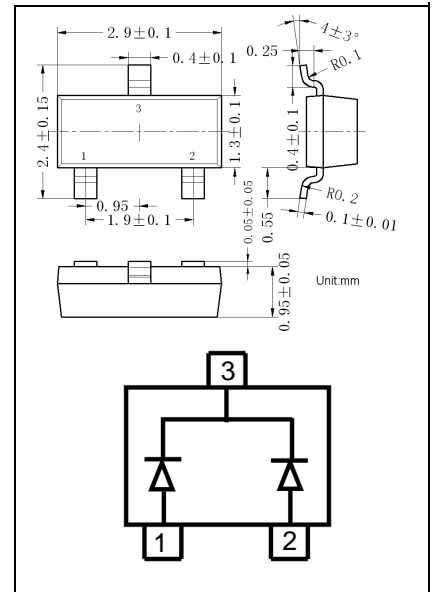
SOT-23 Plastic-Encapsulate Diodes

BAT54C Schottky Barrier Diode

Features

- Extremely Fast Switching Speed

Marking: KL3



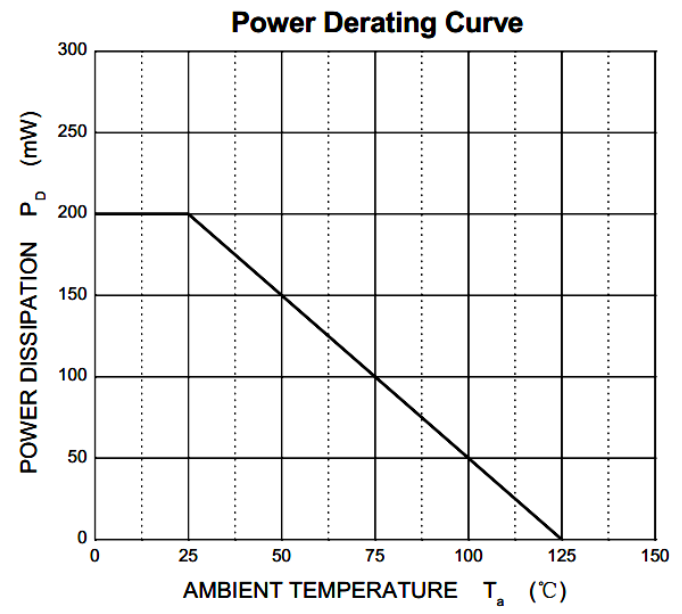
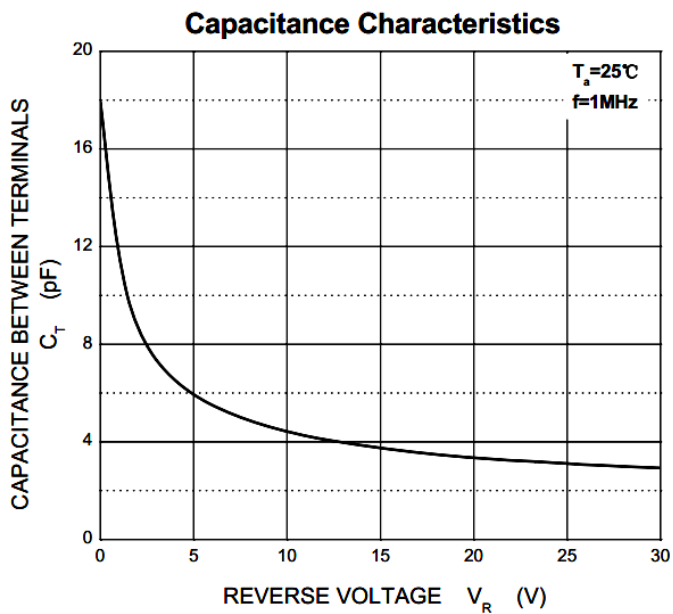
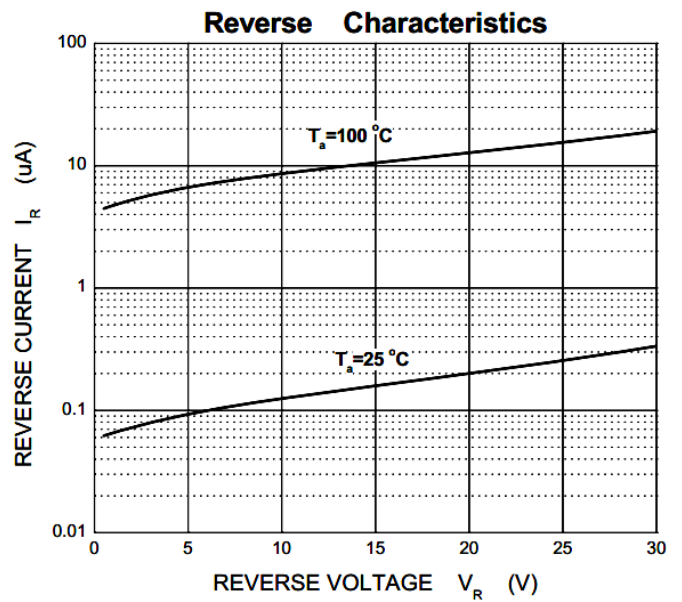
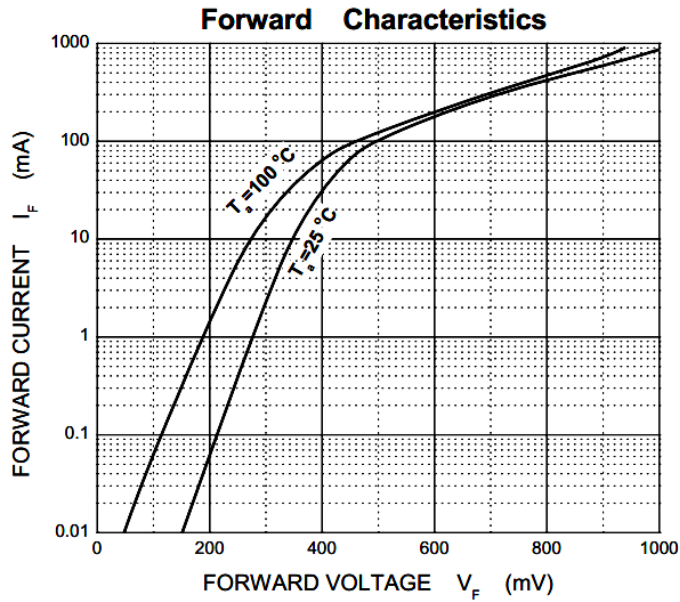
Maximum Ratings (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _R RM	Peak Repetitive Reverse Voltage	30	V
V _R WM	Working Peak Reverse Voltage		
V _R	DC blocking voltage		
I _F M	Forward Continuous Current	200	mA
I _F SM	Non-Repetitive Peak Forward Surge Current @ t=8.3ms	600	mA
I _F RM	Repetitive Peak Forward Current @ t≤1s, δ≤0.5	300	mA
P _D	Power Dissipation	200	mW
R _θ JA	Thermal Resistance from Junction to Ambient	500	°C/W
T _j	Junction Temperature	-65~+125	°C
T _{stg}	Storage Temperature Range	-55 ~ +150	°C

Electrical Characteristics (T_a=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _(BR)	Reverse breakdown voltage	I _R = 100μA	30			V
V _F	Forward voltage	I _F = 0.1mA			0.24	V
		I _F = 1mA			0.32	V
		I _F = 10mA			0.40	V
		I _F = 30mA			0.50	V
		I _F = 100mA			0.80	V
I _R	Reverse current	V _R = 25V			2	μA
C _D	Diode capacitance	V _R = 0, f = 1MHz			10	pF
t _{rr}	Reverse recovery time	I _F = I _R = 10mA, I _{rr} = 0.1×I _R R _L = 100Ω			5	ns

Typical Characteristics



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