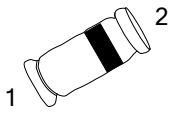
BAS85

DIODE

SMALL SIGNAL SCHOTTKY DIODE



LL-34

■ DESCRIPTION

The UTC **BAS85** is a small signal schottky diode, it uses UTC's advanced technology to provide customers with low forward voltage and high breakdown voltage, etc.

The UTC **BAS85** is suitable for general purpose applications.

■ FEATURES

* High breakdown voltage
* Low forward voltage
* Fast switching

■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment		Packing
		1	2	
BAS85G-LL34-R	LL-34	A	K	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

BAS85G-LL34-R (1)Packing Type (2)Package Type (3)Green Package	(1) R: Tape Reel (2) LL34: LL-34 (3) G: Halogen Free and Lead Free

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Continuous Reverse Voltage	V_R	30	V
Continuous Forward Current @ T_A=25°C (Note 1)	I_F	200	mA
Peak Forward Current @ T_A=25°C (Note 1)	I_{FM}	300	mA
Non-Repetitive Peak Forward Current @ t_p<1s, T_A=25°C (Note 1)	I_{FSM}	5	A
Power Dissipation @ T_A=65°C (Note 1)	P_D	200	mW
Junction Temperature	T_J	125	°C
Operating Ambient Temperature	T_A	-55~+125	°C
Storage Temperature	T_{STG}	-55~+150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient (Note 1)	θ_{JA}	430	°C/W

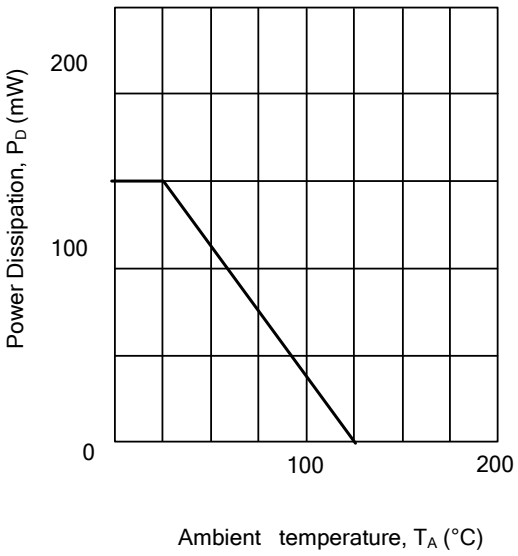
■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V_R		30			V
Forward Voltage (Note 2)	V_F	I_F=0.1mA			0.24	V
		I_F=1mA			0.32	V
		I_F=10mA			0.4	V
		I_F=30mA		0.5		V
		I_F=100mA			0.8	V
Leakage Current	I_R	V_R=25V			2.0	μA
Reverse Recovery Time	t_{rr}	I_F=10mA,I_R=10mA, I_R=1mA			5	ns
Junction Capacitance	C_J	f=1MHz, V_R=1V			10	pF

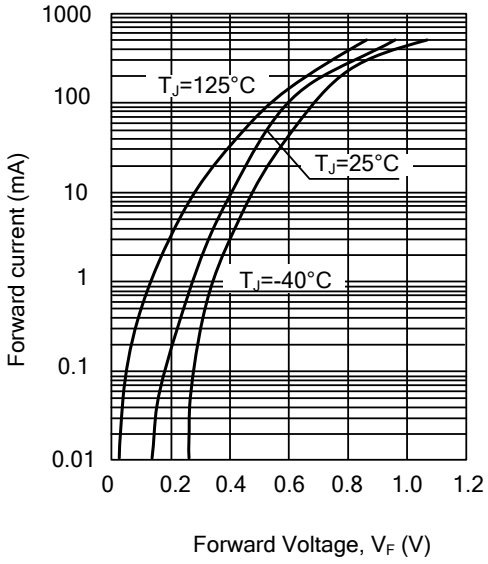
Notes: 1. Valid provided that leads at a distance of 4mm from case are kept at ambient temperature
2. Pulsed test: t_P<300μs; δ<2%.

■ TYPICAL CHARACTERISTICS

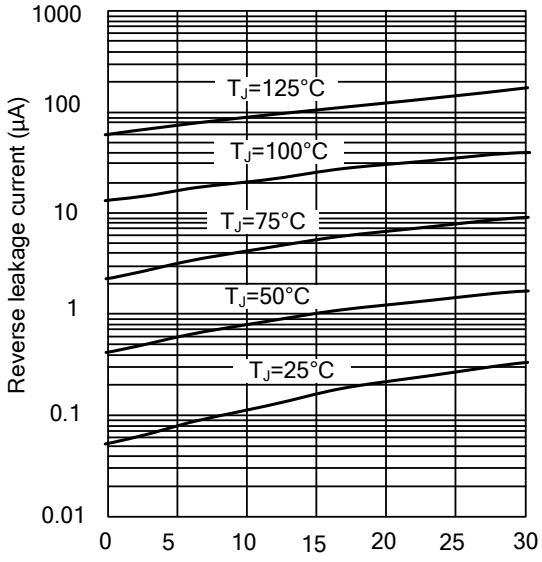
Admissible Powerv Dissipation vs. Ambient Temperature



Typical Instantaneous Forword Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance