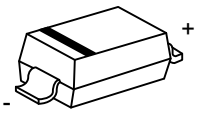
BAP51-03

Preliminary ***DIODE***

SILICON PIN DIODES



SOD-323

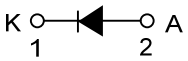
■ DESCRIPTION

The UTC **BAP51-03** is General-purpose PIN diode in an SOD-323 small plastic SMD package.

■ FEATURES

* Low diode capacitance: maximum 1.05 pF
* Low diode forward resistance: max. 0.7 Ω

■ SYMBOL



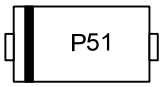
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
BAP5-03L-CB2-R	BAP51-03G-CB2-R	SOD-323	K	A	Tape Reel

Note: Pin Assignment: K: Cathode A: Anode

BAP51-03G-CB2-R (1)Packing Type (2)Package Type (3)Green Package	(1) R: Tape Reel (2) CB2: SOD-323 (3) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING



■ ABSOLUATE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNITS
Reverse Voltage	V_R	50	V
Forward Current	I_F	50	mA
Power Dissipation (T_J=90°C)	P_D	500	mW
Junction Temperature	T_J	-65 ~ +150	°C
Storage Temperature	T_{STG}	-65 ~ +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 Case	θ_{JC}	250	°C/W

■ ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V_F	I_F=50mA		0.95	1.1	V
Reverse Voltage	V_R	I_R=10μA	50			V
Reverse Current	I_R	V_R=50V			100	nA
Diode Capacitance	C_d	V_R=0V, f=1MHz		0.4		pF
		V_R=1V, f=1MHz		0.32	0.55	pF
		V_R=5V, f=1MHz		0.28	0.35	pF