UTC UNISONIC TECHNOLOGIES CO., LTD

BAS70x DIODE

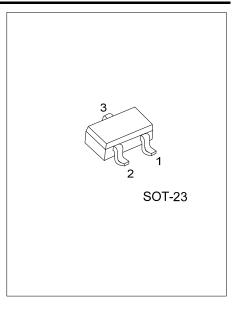
SCHOTTKY BARRIER DIODES

DESCRIPTION

Planar Schottky barrier diodes encapsulated in the SOT-23 small plastic SMD package. Single diodes and dual diodes with different pin configuration are available.

FEATURES

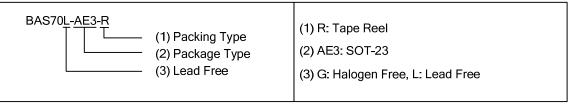
- * Low Turn-on voltage
- * Fast switching
- * Ultra-small surface mount package
- * Also available in lead free version



ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Doolsing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
BAS70L-AE3-R	BAS70G-AE3-R	SOT-23	Х	Α	K	Tape Reel	
BAS70AL-AE3-R	BAS70AG-AE3-R	SOT-23	K1	K2	A2A1	Tape Reel	
BAS70CL-AE3-R	BAS70CG-AE3-R	SOT-23	A1	A2	K2K1	Tape Reel	
BAS70SL-AF3-R	BAS70SG-AF3-R	SOT-23	K1	A2	K2A1	Tane Reel	

K: Cathode x:NC Note: Pin Assignment: A: Anode



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■ DIODE CONFIGURATION AND SYMBOL

BAS70	BAS70A	BAS70C	BAS70S
2 1 n.c	2 1	2 1	2 1

■ MARKING

BAS70	BAS70A	BAS70C	BAS70S
G: Halogen Free L: Lead Free	GA G: Halogen Free L: Lead Free	GC G: Halogen Free	GS G: Halogen Free

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

PARAMETER	SYMBOL	RATINGS	UNITS
DC Voltage	V_R	70	V
Forward Continuous Current	I _F	70	mA
Power Dissipation	P _D	200	mW
Junction Temperature	TJ	-55 ~ +150	$^{\circ}$ C
Storage Temperature	T _{STG}	-55 ~ + 150	$^{\circ}$ C

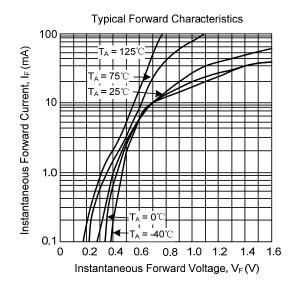
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

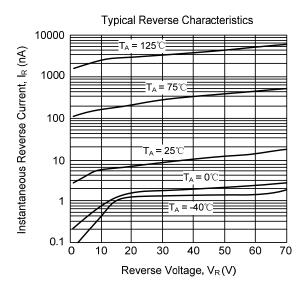
■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified)

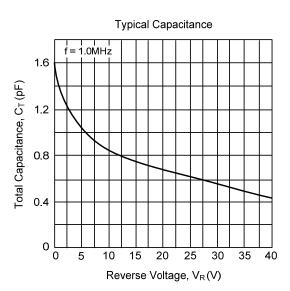
PARAMETER SYI		TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	BV_R	I _R = 10μA	70			V
Reverse Voltage Leakage Current	I _R	V _R =50V			100	nA
Famous Maltana	\/_	I _F =1mA			410	mV
Forward Voltage		I _F =15mA			1000	mV
Diode Capacitance	C_D	V _R =0V, f=1MHz			2	pF
Reveres Recovery Time	l too	$I_F=I_R=10$ mA, $I_{RR}=0.1$ x I_R , $R_L=100\Omega$			5	nS

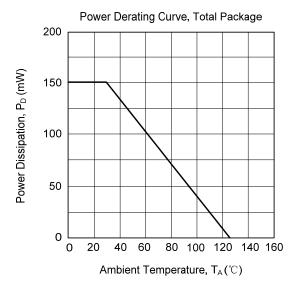
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■ TYPICAL CHARACTERISTICS









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