



# BAS70TW-AU~BAS70SDW-AU

## SURFACE MOUNT SCHOTTKY DIODES

<b>Voltage</b>	<b>70 V</b>	<b>Current</b>	<b>0.2 A</b>
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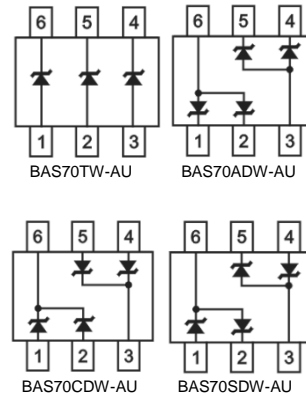
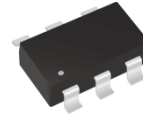
### Features

- Reverse voltage rating of 70V
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

### Mechanical Data

- Case: SOT-363 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.006 grams

### SOT-363



### Maximum Ratings and Thermal Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	70	V
Maximum Rms Voltage	$V_{RMS}$	49	V
Maximum Dc Blocking Voltage	$V_{DC}$	70	V
Maximum Average Forward Current	$I_{F(AV)}$	0.2	A
Peak Forward Surge Current : 1 s Single Half Sine-Wave Superimposed On Rated Load	$I_{FSM}$	0.6	A
Maximum Junction Capacitance Measured at 1 MHz And Applied $V_R = 0\text{ V}$	$C_J$	2	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	540	$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_J$	-55~125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55~125	$^\circ\text{C}$



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### Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 1\text{ mA}, T_J = 25^\circ\text{C}$	-	-	0.41	V
		$I_F = 10\text{ mA}, T_J = 25^\circ\text{C}$	-	-	0.75	
		$I_F = 15\text{ mA}, T_J = 25^\circ\text{C}$	-	-	0.9	
		$I_F = 1\text{ mA}, T_J = 125^\circ\text{C}$	-	0.26	-	
		$I_F = 10\text{ mA}, T_J = 125^\circ\text{C}$	-	0.55	-	
		$I_F = 15\text{ mA}, T_J = 125^\circ\text{C}$	-	0.59	-	
Reverse Current	$I_R^{(2)}$	$V_R = 50\text{ V}, T_J = 25^\circ\text{C}$	-	-	0.1	uA
		$V_R = 70\text{ V}, T_J = 25^\circ\text{C}$	-	-	1	
		$V_R = 70\text{ V}, T_J = 125^\circ\text{C}$	-	45	-	

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, mini pad.
2. Short duration pulse test used to minimize self-heating effect.



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## TYPICAL CHARACTERISTIC CURVES

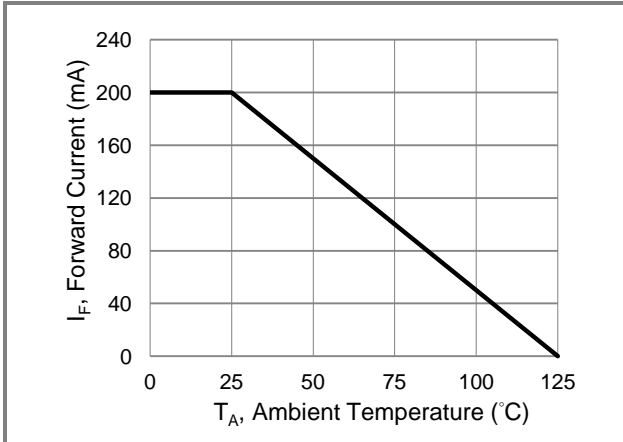


Fig.1 Forward Current Derating Curve

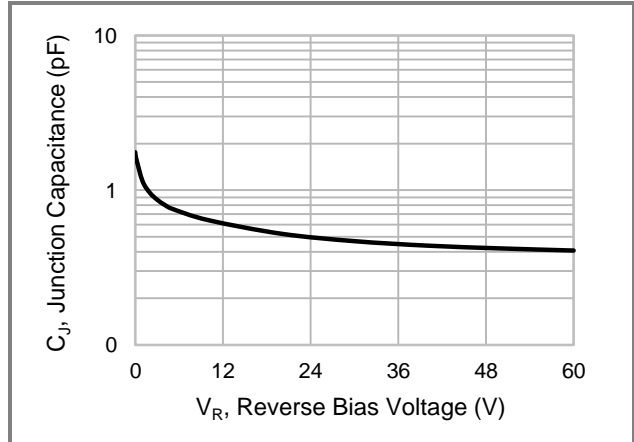


Fig.2 Typical Junction Capacitance

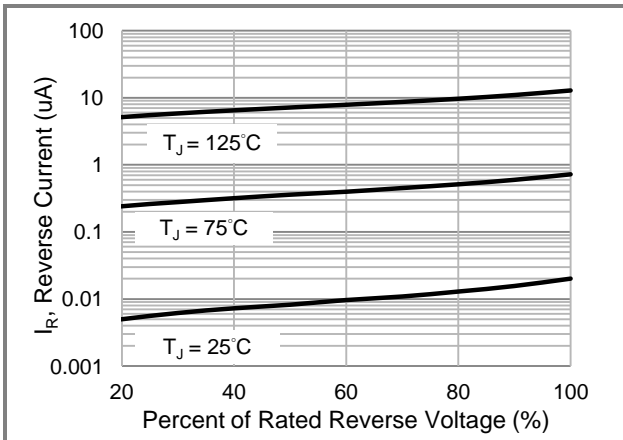


Fig.3 Typical Reverse Characteristics

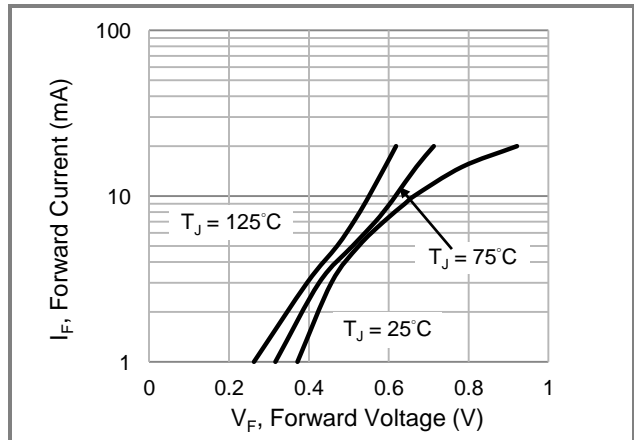


Fig.4 Typical Forward Characteristics

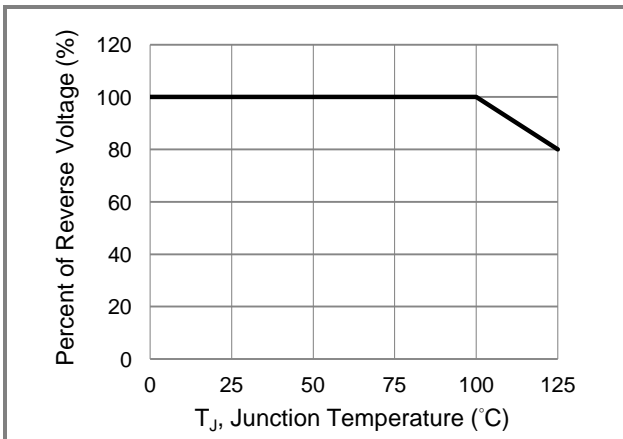


Fig.5 Operating Temperature Derating Curve

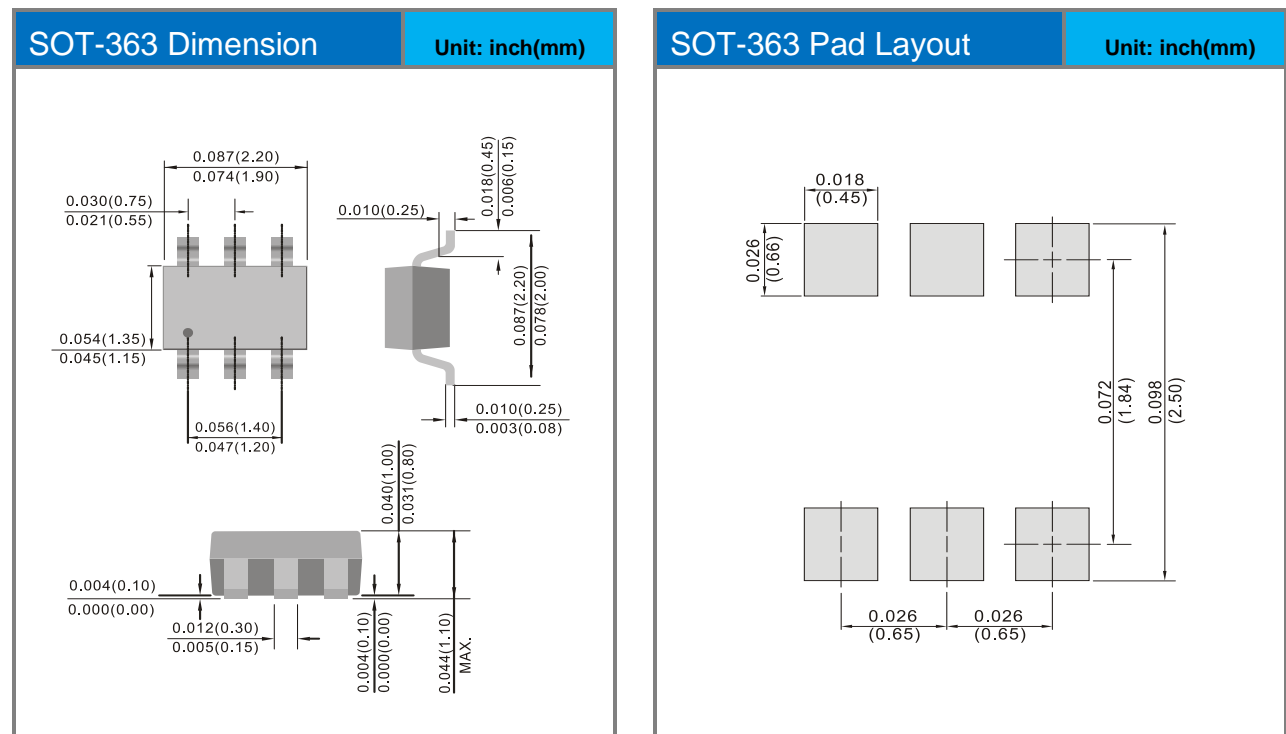


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## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS70TW-AU_R1_000A1	SOT-363	3K / 7" Reel	A70	Halogen free
BAS70ADW-AU_R1_000A1	SOT-363	3K / 7" Reel	A72	Halogen free
BAS70CDW-AU_R1_000A1	SOT-363	3K / 7" Reel	A73	Halogen free
BAS70SDW-AU_R1_000A1	SOT-363	3K / 7" Reel	A74	Halogen free

## Packaging Information & Mounting Pad Layout





## **BAS70TW-AU~BAS70SDW-AU**

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