

#### BAS40TW-AU~BAS40SDW-AU SURFACE MOUNT SCHOTTKY DIODES SOT-363 Voltage 40 V Current 0.2 A Features Reverse voltage rating of 40V • Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard • AEC-Q101 qualified 2 3 1 2 1 BAS40TW-AU BAS40ADW-AU 4 6 5 6 5 4 **Mechanical Data** • Case: SOT-363 Package • Terminals: Solderable per MIL-STD-750, Method 2026 2 3 2 1 BAS40CDW-AU BAS40SDW-AU • Approx. Weight: 0.0002 ounces, 0.006 grams

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum Rms Voltage	V <sub>RMS</sub>	28	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	40	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	0.2	A
Peak Forward Surge Current: 1 s Single Half Sine- Wave Superimposed On Rated Load	I <sub>FSM</sub>	0.6	А
Maximum Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$	CJ	5	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	540	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C



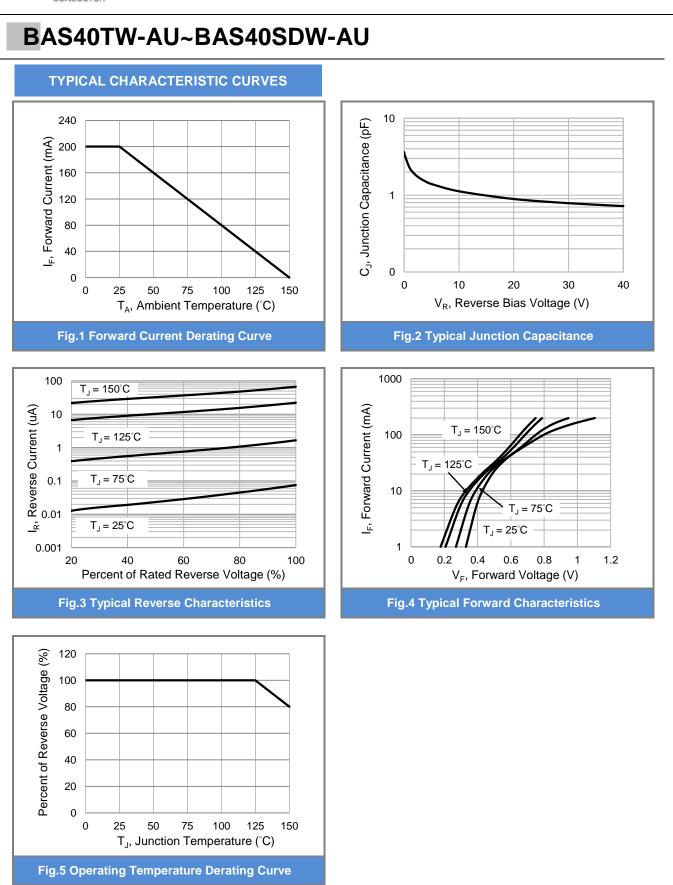
# BAS40TW-AU~BAS40SDW-AU

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	$I_{\rm F} = 1 \text{ mA}, T_{\rm J} = 25 ^{\circ}\text{C}$	-	-	0.38	V
		$I_F = 10 \text{ mA}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.5	
		$I_F = 40 \text{ mA}, T_J = 25 \degree C$	-	-	1	
		I <sub>F</sub> = 1 mA, T <sub>J</sub> = 125 °C	-	0.21	-	
		$I_F = 10 \text{ mA}, T_J = 125 \degree \text{C}$	-	0.35	-	
		I <sub>F</sub> = 40 mA, T <sub>J</sub> = 125 °C	-	0.55	-	
Reverse Current	I <sub>R</sub> <sup>(2)</sup>	$V_{R} = 30 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	0.5	uA
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	1	
		$V_R = 40 \text{ V}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	22	-	

NOTES:

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





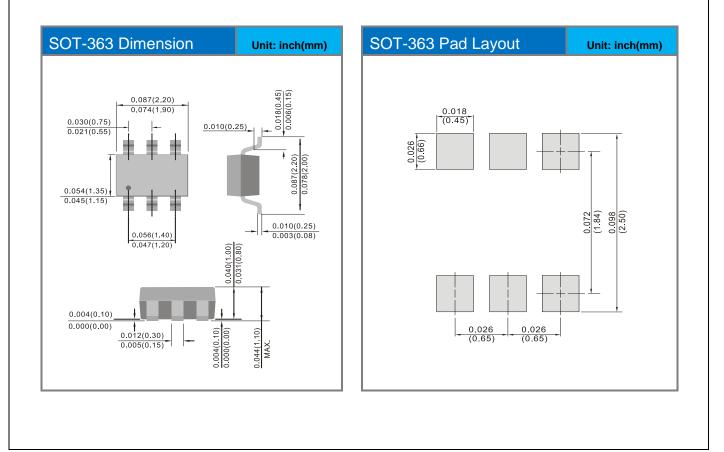


# BAS40TW-AU~BAS40SDW-AU

#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS40TW-AU_R1_000A1	SOT-363	3K / 7" Reel	S40	Halogen free
BAS40ADW-AU_R1_000A1	SOT-363	3K / 7" Reel	S42	Halogen free
BAS40CDW-AU_R1_000A1	SOT-363	3K / 7" Reel	S43	Halogen free
BAS40SDW-AU_R1_000A1	SOT-363	3K / 7" Reel	S44	Halogen free

### **Packaging Information & Mounting Pad Layout**







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