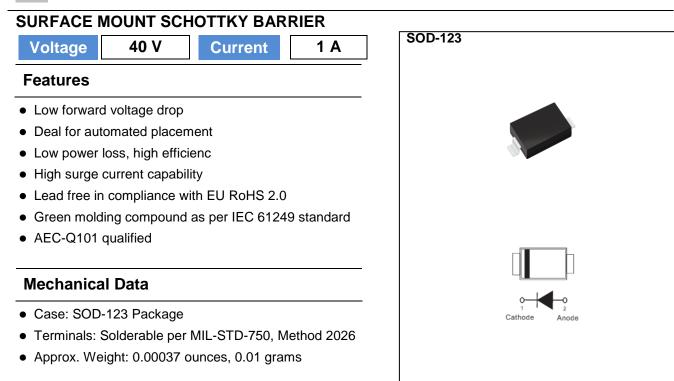
	1 A A A A A A A A A A A A A A A A A A A
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Maximum Rms Voltage	V _{RMS}	28	V
Maximum Dc Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Current	I _{F(AV)}	1	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	30	А
Typical Junction Capacitance	0	45	pF
Measured at 1 MHz And Applied VR = 4V	C」	45	
	$R_{\theta JA}{}^{(1)}$	380	
Typical Thermal Resistance	$R_{ extsf{ heta}JC}$ (2)	100	°C/W
	$R_{ extsf{ hetaJL}}^{(2)}$	200	
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 0.5 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	0.44	-	
		$I_F = 1 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.55	Ň
		$I_F = 0.5 \text{ A}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	0.36	-	V
		I _F = 1 A, T _J = 125 °C	-	0.47	-	
Reverse Current	I _R ⁽³⁾	$V_{R} = 32 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	1.5	-	•
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	60	uA
		$V_R = 40 \text{ V}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	2.3	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect





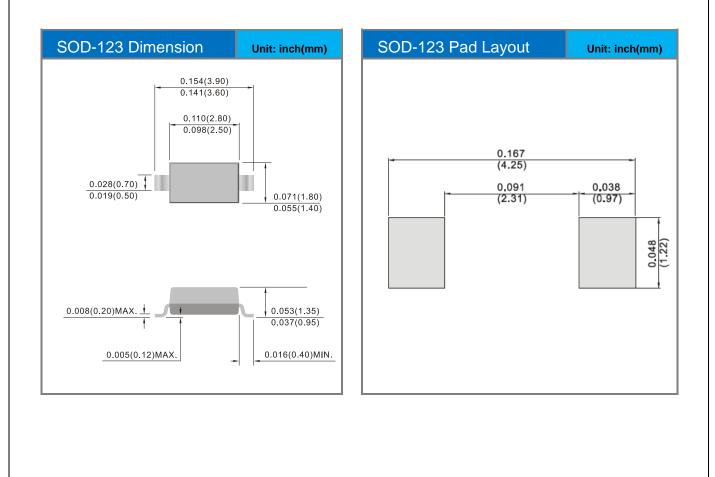
SS1040-AU TYPICAL CHARACTERISTIC CURVES 1.2 1000 CJ, Junction Capacitance (pF) IF, Forward Current (A) 1 100 0.8 0.6 0.4 10 0.2 0 1 0 25 50 75 100 125 150 0 12 24 36 48 60 T_c, Case Temperature (°C) V_R, Reverse Bias Voltage (V) Fig.1 Forward Current Derating Curve **Fig.2 Typical Junction Capacitance** 10000 10 T_J= 125℃ IF, Forward Current (A) € 1000 1 I_R, Reverse Current T_J = 125°C T_J = 75℃ 100 0.1 10 T_J = 75°C T_J = 25°C 0.01 T_J = 25℃ 1 0.001 0.1 0 0.15 0.3 0.45 0.6 20 40 60 80 100 Percent of Rated Reverse Voltage (%) V_F, Forward Voltage (V) **Fig.3 Typical Reverse Characteristics Fig.4 Typical Forward Characteristics** Percent of Reverse Voltage (%) 120 100 80 60 40 20 0 0 25 50 75 100 125 T_J, Junction Temperature (°C) Fig.5 Operating Temperature Derating Curve



Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1040-AU_R1_000A1	SOD-123	3K / 7" Reel	G5	Halogen free

Packaging Information & Mounting Pad Layout





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

SS1040-AU_R1_000A1 SS1040-AU_R2_000A1