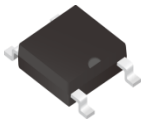
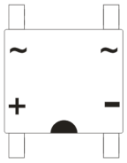
TS360ILS-AU

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

Voltage	60 V	Current	3 A

MICRO-DIP / TDI





Features

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

- Case: MICRO-DIP / TDI Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.003 ounces, 0.09 grams

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum Rms Voltage	V_{RMS}	42	V
Maximum Dc Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load per diode	I_{FSM}	60	A
Typical Junction Capacitance Measured at 1 MHz And Applied V_R = 4 V	C_J	180	pF
Typical Thermal Resistance per diode	$R_{\theta JA}$ (1) $R_{\theta JC}$ (2)	145 38	°C/W
Operating Junction Temperature Range	T_J	-55~150	°C
Storage Temperature Range	T_{STG}	-55~150	°C

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Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 1 A, T_J = 25 °C	-	0.48	-	V
		I_F = 3 A, T_J = 25 °C	-	-	0.66	
		I_F = 1 A, T_J = 125 °C	-	0.39	-	
		I_F = 3 A, T_J = 125 °C	-	0.57	-	
Reverse Current	I_R (2)	V_R = 48 V, T_J = 25 °C	-	1.5	-	uA
		V_R = 60 V, T_J = 25 °C	-	-	20	
		V_R = 60V,T_J= 125 °C	-	2.5	-	mA

NOTES:

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

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TYPICAL CHARACTERISTIC CURVES

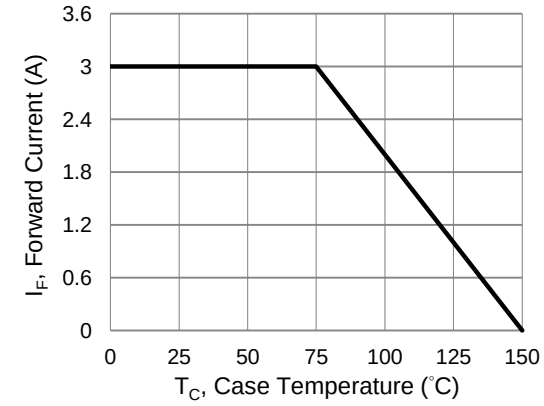

Fig.1 Forward Current Derating Curve

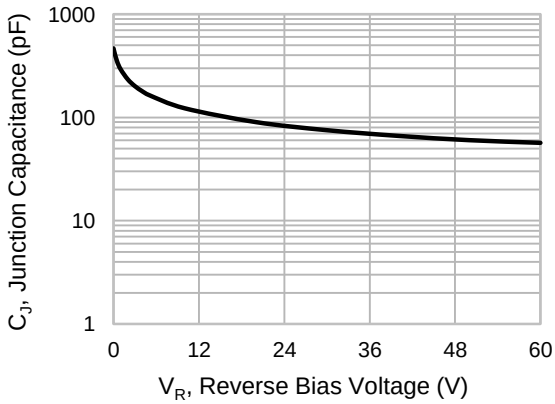

Fig.2 Typical Junction Capacitance

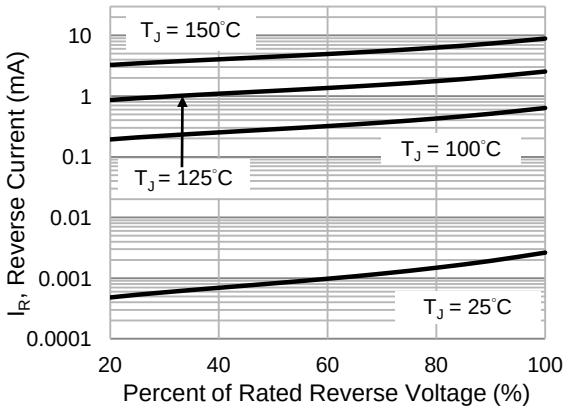

Fig.3 Typical Reverse Characteristics

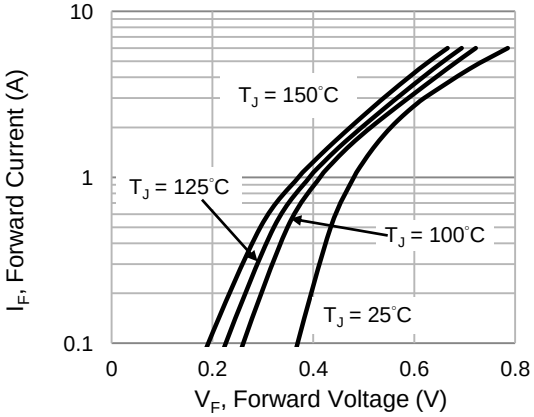

Fig.4 Typical Forward Characteristics

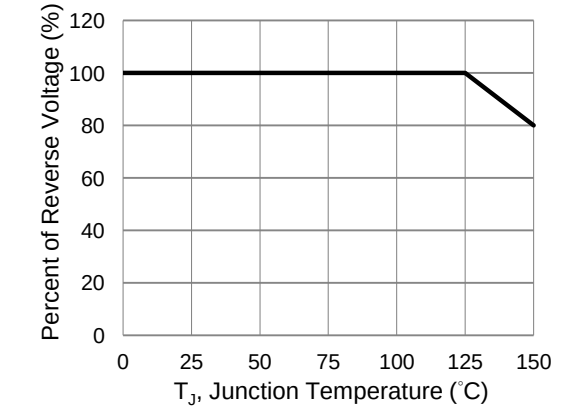

Fig.5 Operating Temperature Derating Curve

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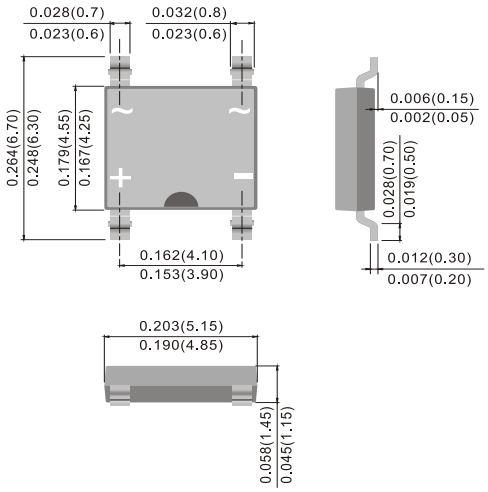
Part No Packing Code Version

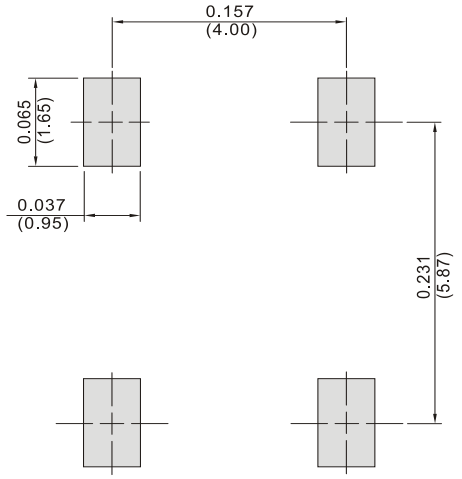
Part No Packing Code	Package Type	Packing Type	Marking	Version
TS360ILS-AU_R2_000A1	MICRO-DIP / TDI	4K pcs / 13” reel	TS360ILS	Halogen free

Packaging Information & Mounting Pad Layout

MICRO-DIP / TDI Dimension — Unit: inch(mm)



MICRO-DIP / TDI Pad Layout — Unit: inch(mm)



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