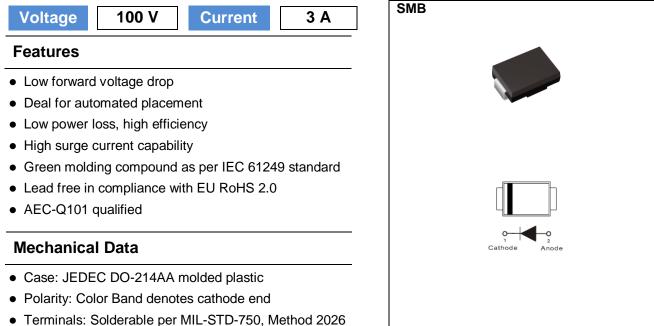
ΡΛΝ	ĴΪΤ
	SEMI CONDUCTOR

• Approx. Weight: 0.0032 ounces, 0.092 grams

MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3	А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	80	А
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	120	pF
Typical Thermal Resistance per diode	${{{R}_{{ extsf{ heta}JA}}^{\left(1 ight)}}$ ${{R}_{{ heta}JC}}^{\left(2 ight)}$ ${{R}_{{ heta}JL}}^{\left(1 ight)}$	75 18 20	°C/W
Operating Junction Temperature Range	TJ	-65 to +175	°C
Storage Temperature Range	T _{STG}	-65 to +175	°C



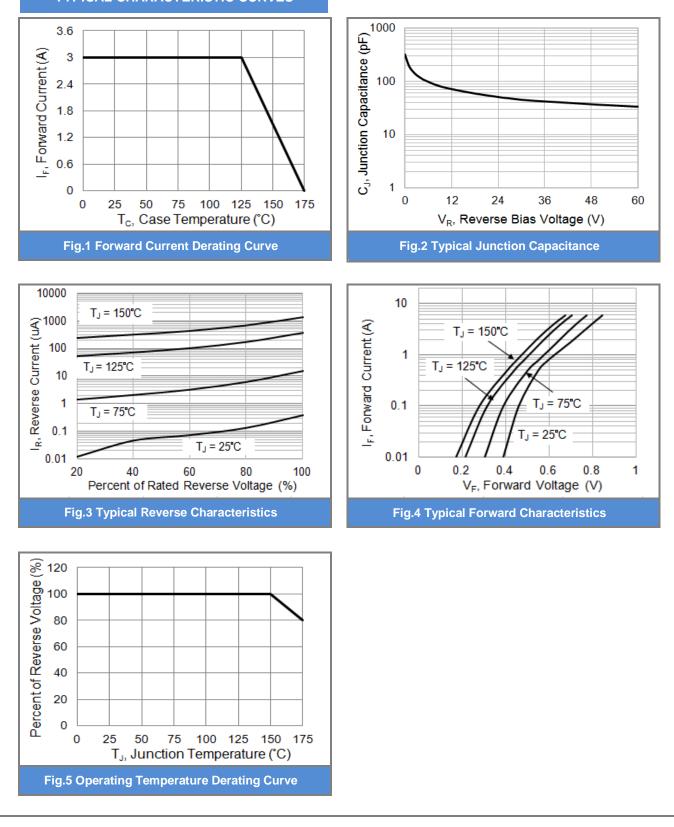
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V _F	$I_F = 1 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.63	-	
		$I_F = 3 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.8	N/
		$I_F = 1 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.51	-	V
		$I_F = 3 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.62	-	
Reverse current	Ι _R ⁽³⁾	$V_{R} = 80 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.14	-	
		$V_{R} = 100 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	50	uA
		$V_R = 100 \text{ V}, \text{ T}_J = 100 ^{\circ}\text{C}$	-	-	20	mA

NOTES:

- 1. Mounted on a PCB, single-sided copper, with 8 mm² (0.013mm thick) copper pad area
- 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





TYPICAL CHARACTERISTIC CURVES



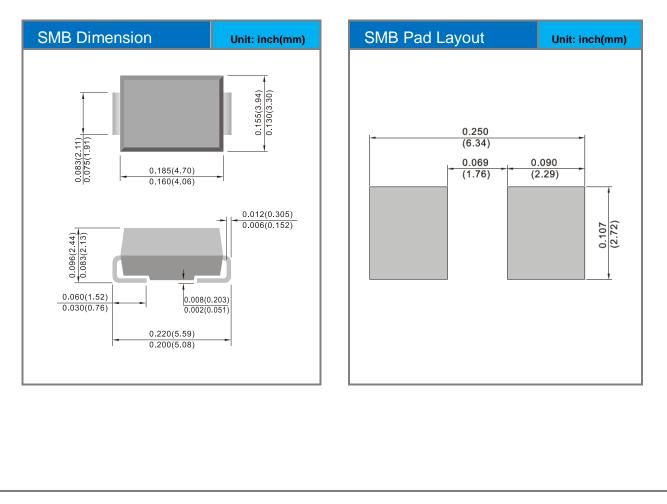




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BR310-AU_R2_000A1	SMB	3000 pcs / 13" reel	BR310	Halogen free

Packaging Information & Mounting Pad Layout





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