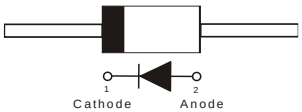
STR10100SS

Low V_F Schottky Barrier Rectifier

Voltage	100 V	Current	10 A

DO-201AD



Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Low leakage
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DO-201AD Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 1.122 grams

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

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive 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 Current		$I_{F(AV)}$	10	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load		I_{FSM}	130	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V		C_J	490	pF
Typical Thermal Resistance	(Note 1) (Note 1)	$R_{\theta JC}$ $R_{\theta JL}$	16 11	°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 = 3 A, T_J = 25 °C	-	0.5	-	V
		I_F = 5 A, T_J = 25 °C	-	0.57	-	V
		I_F = 10 A, T_J = 25 °C	-	-	0.77	V
		I_F = 3 A, T_J = 125 °C	-	0.44	-	V
		I_F = 5 A, T_J = 125 °C	-	0.52	-	V
		I_F = 10 A, T_J = 125 °C	-	0.63	-	V
Reverse Current(Note 2)	I_R	V_R = 80 V, T_J = 25 °C	-	2.8	-	uA
		V_R = 100 V, T_J = 25 °C	-	-	50	
		V_R = 100 V, T_J = 125 °C	-	4.8	-	mA

NOTES :

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

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TYPICAL CHARACTERISTIC CURVES

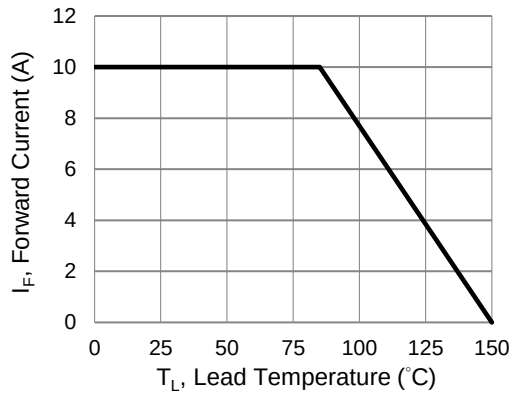

Fig.1 Forward Current Derating Curve

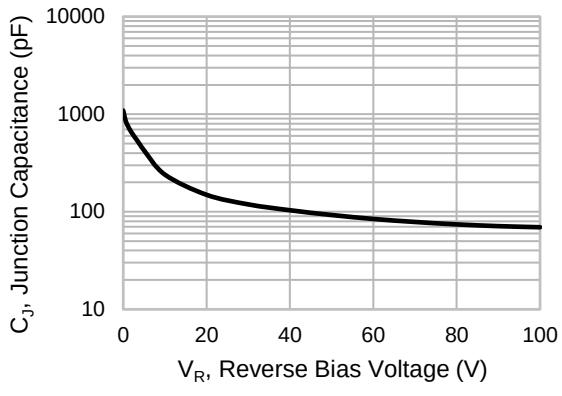

Fig.2 Typical Junction Capacitance

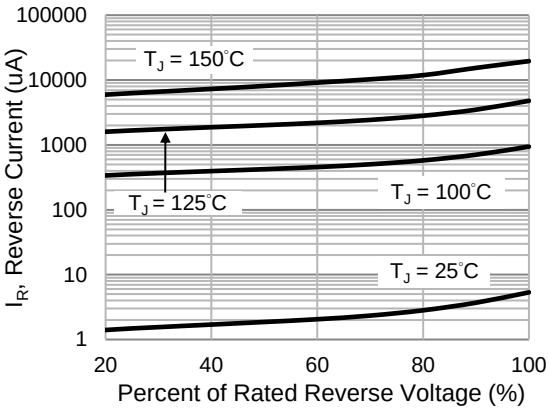

Fig.3 Typical Reverse Characteristics

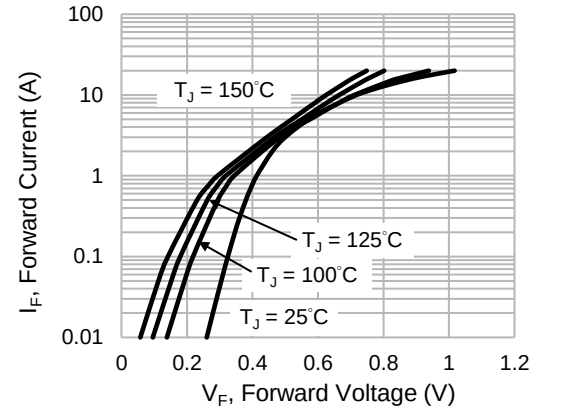

Fig.4 Typical Forward Characteristics

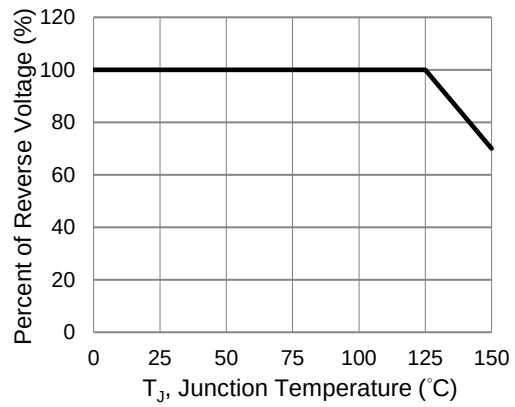

Fig.5 Operating Temperature Derating Curve

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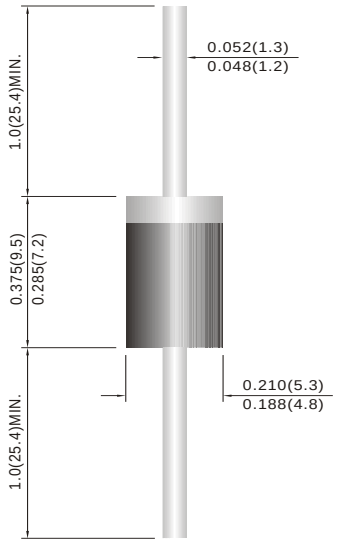
Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR10100SS_AY_00301	DO-201AD	1250pcs / Ammo	STR10100SS	Halogen free RoHS compliant

Packaging Information

DO-201AD Dimension — Unit: inch(mm)



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