



Low V_F Schottky Barrier Rectifier

Voltage 100 V Current

Features

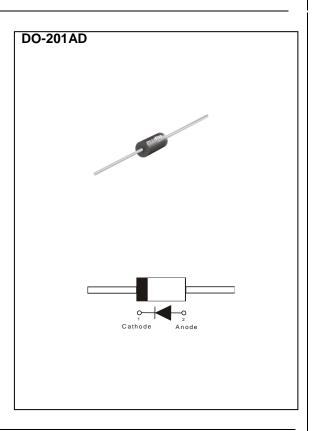
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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)

8 A

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)}	8	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I _{FSM}	125	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$		Сл	425	pF
Typical Thermal Resistance	(Note 1)	Rejc Rejl	16 11	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T _{STG}	-55~150	°C





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 2 A, T _J = 25 °C	-	0.46	-	V
		I _F = 4 A, T _J = 25 °C	-	0.55	-	
		I _F = 8 A, T _J = 25 °C	-	-	0.79	
		I _F = 2 A, T _J = 125 °C	-	0.39	-	
		I _F = 4 A, T _J = 125 °C	-	0.51	-	
		I _F = 8 A, T _J = 125 °C	-	0.63	-	
Reverse Current ^(Note 2)	I _R	V _R = 80 V, T _J = 25 °C	-	1.7	-	uA
		V _R = 100 V, T _J = 25 °C	-	-	50	
		V _R = 100V,T _J = 125 °C	-	4.2	-	mA

NOTES:

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





TYPICAL CHARACTERISTIC CURVES

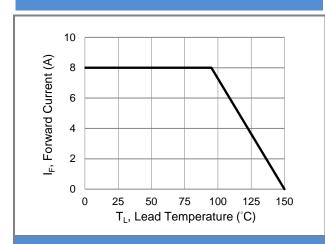


Fig.1 Forward Current Derating Curve

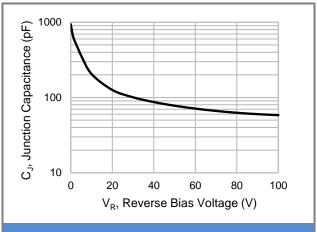


Fig.2 Typical Junction Capacitance

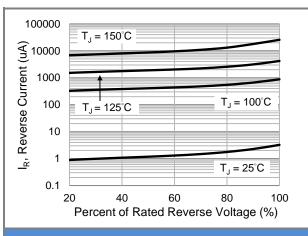


Fig.3 Typical Reverse Characteristics

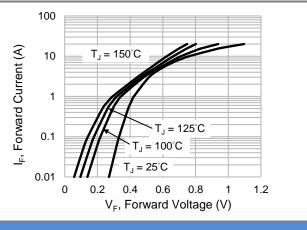
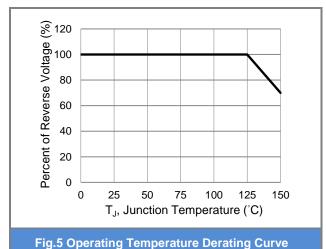


Fig.4 Typical Forward Characteristics



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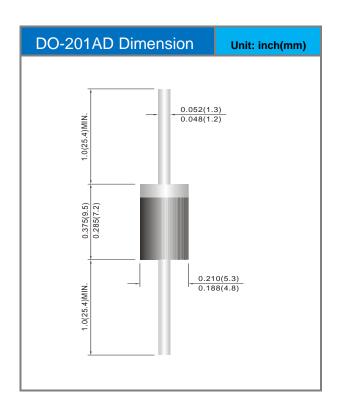




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version	
STR8100LSS_AY_00301	DO-201AD	1250pcs / Ammo	STR8100LSS	Halogen free RoHS compliant	

Packaging Information







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