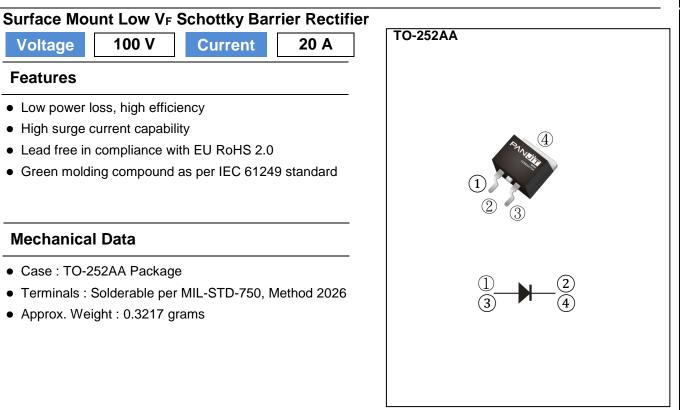
	1 A A A A A A A A A A A A A A A A A A A
ΡΛΝ	JIT
	SEMI
	CONDUCTOR

Voltage

Features

STR20100YD



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

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		Vrrm	100	V
Maximum RMS Voltage		V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V	
Maximum Average Forward Current		I _{F(AV)}	20	А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I _{FSM}	200	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	820	pF
Typical Thermal Resistance	(Note 1)	Reja	80	
	(Note 2)	Rejc	7.5	°C/W
	(Note 2)	Rejl	5.5	
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		Тѕтс	-55~150	٥C



Electrical Characteristics (T _A = 25 °C unless otherwise note	ed)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.38	-	V
		I _F = 10 A, T _J = 25 °C	-	0.58	-	
		IF = 20 A, TJ = 25 °C	-	-	0.81	
		I _F = 1 A, T _J = 125 °C	-	0.26	-	
		I _F = 10 A, T _J = 125 °C	-	0.55	-	
		I _F = 20 A, T _J = 125 °C	-	0.68	-	
Reverse Current ^(Note 3)	IR	V _R = 80 V, T _J = 25 °C	-	7	-	uA
		V _R = 100 V, T _J = 25 °C	-	-	100	
		V _R = 100V,T _J = 125 °C	-	9	-	mA

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 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.

24 I_F, Forward Current (A) 20 16 12 8 4 0 0 50 75 100 125 150 25 T_C, Case Temperature (°C)

TYPICAL CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

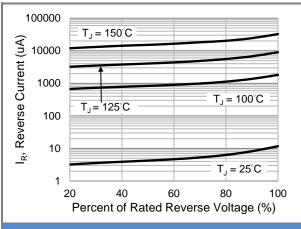
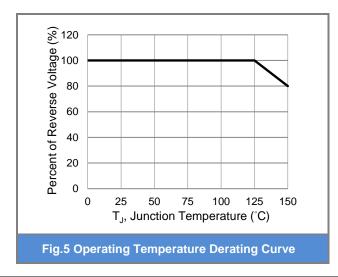


Fig.3 Typical Reverse Characteristics



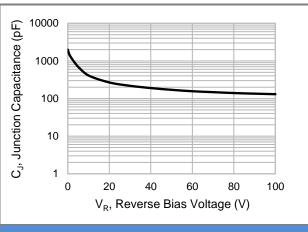


Fig.2 Typical Junction Capacitance

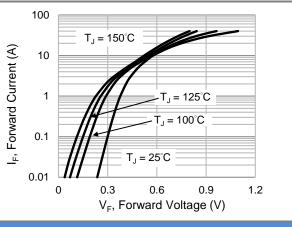


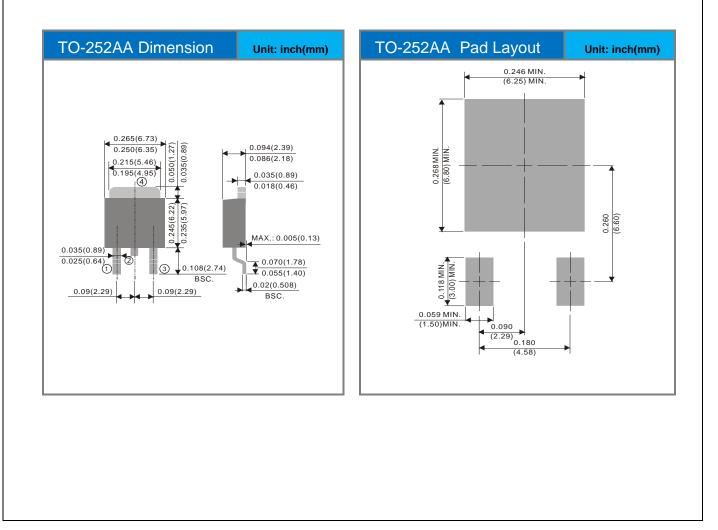
Fig.4 Typical Forward Characteristics



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR20100YD_L2_00001	TO-252AA	3K pcs / 13" reel	T20100Y	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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