

Single Diode

DSA 10 I 100 PM

Part number

Very low Vf

• low Irm values

Schottky Diode

High Performance Schottky Diode

Low Loss and Soft Recovery

DSA 10 | 100 PM

advanced

V _{RRM} =		100 V
I _{FAV}	=	10 A
V _F	=	0.72 V



Backside: isolated

N E72873

• Housing: TO-220FP

Package:

- Industry standard outline
- · Plastic overmolded tab for
- electrical isolation
- Epoxy meets UL 94V-0
- RoHS compliant

Ratings

Symbol	Definition	Conditions		min.	typ.	max.	Unit
V _{RRM}	max. repetitive reverse voltage		$T_{VJ} = 25^{\circ}C$			100	V
I _R	reverse current	V _R = 100 V	$T_{VJ} = 25^{\circ}C$			0.2	μA
		V _R = 100 V	T _{vJ} = 125°C			2	mA
V _F	forward voltage	I _F = 10A	$T_{VJ} = 25^{\circ}C$			0.90	V
		$I_{F} = 20 A$				1.50	V
		$I_F = 10A$	T _{vJ} = 125°C			0.72	V
		I _F = 20A				0.88	V
I _{FAV}	average forward current	rectangular, d = 0.5	$T_c = 145^{\circ}C$			10	Α
V _{F0}	threshold voltage	landa d'ana andar	T _{vJ} = 175°C			0.46	V
۲ _F	slope resistance } for power loss cal	culation only				17	mΩ
R_{thJC}	thermal resistance junction to case					4.50	K/W
T _{vj}	virtual junction temperature			-55		175	°C
P _{tot}	total power dissipation		$T_c = 25^{\circ}C$			35	W
I _{FSM}	max. forward surge current	t = 10 ms (50 Hz), sine	$T_{VJ} = 45^{\circ}C$			220	Α
C」	junction capacitance	V_R = tbd V; f = 1 MHz	$T_{VJ} = 25^{\circ}C$		tbd		pF

• Improved thermal behaviour

Features / Advantages:

 High reliability circuit operation Low voltage peaks for reduced protection circuits

• Extremely low switching losses

Low noise switching



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- Rectifiers in switch mode power supplies (SMPS)
- Free wheeling diode in low voltage converters

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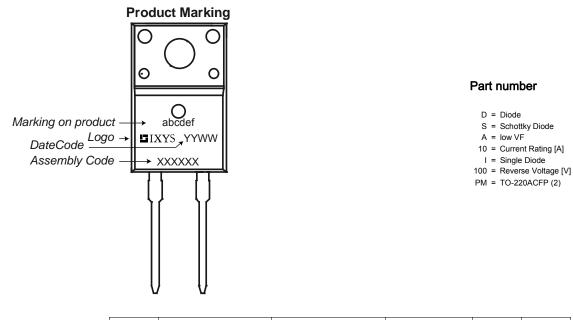


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			Ratings			
Symbol	Definition	Conditions	min.	typ.	max.	Unit
I _{RMS}	RMS current	per pin ¹⁾			35	А
R _{thCH}	thermal resistance case to heatsink			0.50		K/W
T _{stg}	storage temperature		-55	5	150	°C
Weight				2		g
M _D	mounting torque		0.4	ŀ	0.8	Nm
F _c	mounting force with clip		20)	60	Ν

¹⁾ I_{RMS} is typically limited by: 1. pin-to-chip resistance; or by 2. current capability of the chip. In case of 1, a common cathode/anode configuration and a non-isolated backside, the whole current capability can be used by connecting the backside.



Ordering	Part Name	Marking on Product	Delivering Mode	Base Qty	Code Key
Standard	DSA 10 I 100 PM	DSA10I100PM	Tube	50	503362

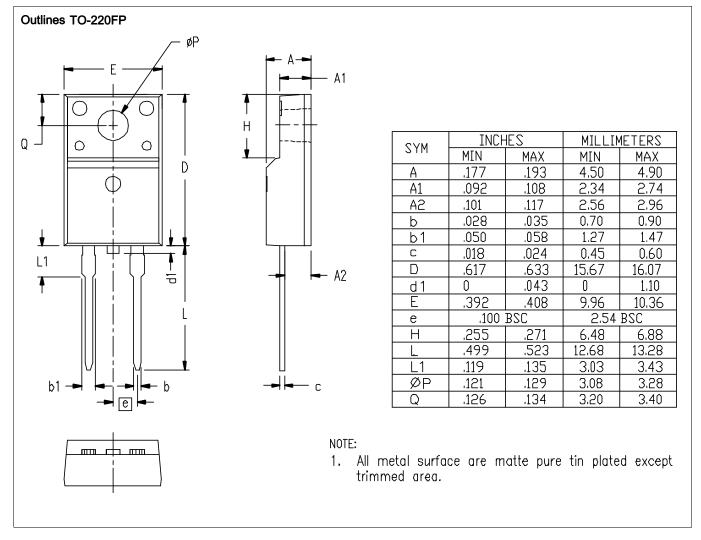
Similar I	Part	Package	Voltage class
DSS10-01A		TO-220	100
DSS10-01AS	S	TO-263 (D2Pak)	100

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