

preliminary

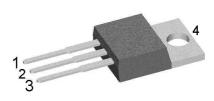
Schottky	Diode	Gen ²
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V_{RRM}	=	60 V
I _{FAV}	<i>=</i> 2x	15 A
٧F	= (0.72 V

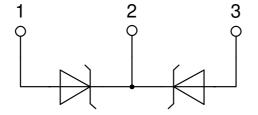
High Performance Schottky Diode Low Loss and Soft Recovery Common Cathode

Part number

DSA30C60PB



Backside: cathode



Features / Advantages:

- Very low Vf
- Extremely low switching losses
- Low Irm values
- Improved thermal behaviour
- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching

Applications:

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

Package: TO-220

- Industry standard outline
- RoHS compliant
- Epoxy meets UL 94V-0

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IXYS reserves the right to change limits, conditions and dimensions.



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Schottky			Ratings				
Symbol	Definition	Conditions		min.	typ.	max.	Unit
V _{RSM}	max. non-repetitive reverse block	ng voltage	$T_{VJ} = 25^{\circ}C$			60	V
V _{RRM}	max. repetitive reverse blocking v	oltage	$T_{VJ} = 25^{\circ}C$			60	V
I _R	reverse current, drain current	$V_R = 60 V$	$T_{VJ} = 25^{\circ}C$			250	μA
		$V_{R} = 60 V$	$T_{vJ} = 125^{\circ}C$			3	mA
VF	forward voltage drop	I _F = 15 A	$T_{vJ} = 25^{\circ}C$			0.88	V
		$I_{F} = 30 \text{ A}$				1.09	V
		I _F = 15 A	T _{vJ} = 125°C			0.72	V
		$I_{F} = 30 \text{ A}$				0.90	V
	average forward current	T _c = 155°C	T _{vJ} = 175°C			15	A
		rectangular d = 0.5					
V _{F0}	threshold voltage $T_{yy} = 175^{\circ}C$				0.49	V	
r _F	slope resistance { for power loss calculation only					10.4	mΩ
R _{thJC}	thermal resistance junction to case				1.75	K/W	
R _{thCH}	thermal resistance case to heatsing	nk			0.5		K/W
P _{tot}	total power dissipation		$T_c = 25^{\circ}C$			85	W
IFSM	max. forward surge current	t = 10 ms; (50 Hz), sine; $V_{R} = 0 V$	$T_{vJ} = 45^{\circ}C$			340	A
C	junction capacitance	$V_{B} = 12V$ f = 1 MHz	$T_{vJ} = 25^{\circ}C$		227		pF

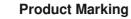
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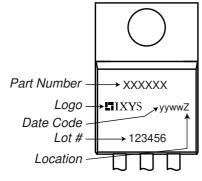
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Package TO-220			Ratings			
Symbol	Definition	Conditions	min.	typ.	max.	Unit
	RMS current	per terminal ¹⁾			35	Α
T _{vj}	virtual junction temperature		-55		175	°C
T _{op}	operation temperature		-55		150	°C
T _{stg}	storage temperature		-55		150	°C
Weight				2		g
M _D	mounting torque		0.4		0.6	Nm
F _c	mounting force with clip		20		60	Ν





Part description

- D = Diode
- S = Schottky Diode A = Iow VF
- 30 = Current Rating [A]
- C = Common Cathode
- 60 = Reverse Voltage [V] PB = TO-220AB (3)

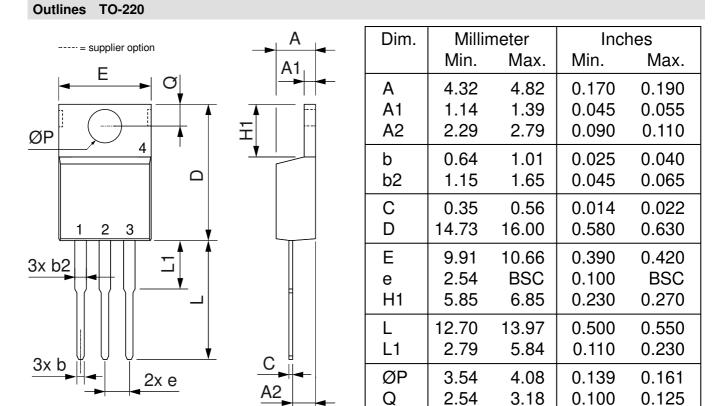
Ordering	Ordering Number	Marking on Product	Delivery Mode	Quantity	Code No.
Standard	DSA30C60PB	DSA30C60PB	Tube	50	506715

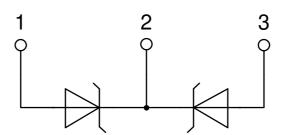
Equiva	alent Circuits for	Simulation	* on die level	$T_{VJ} = 175^{\circ}C$
)[R	Schottky		
V _{0 max}	threshold voltage	0.49		V
$\mathbf{R}_{0 \text{ max}}$	slope resistance *	7.2		mΩ

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