imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Schottky Diode

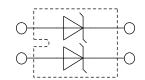
High Performance Schottky Diode Low Loss and Soft Recovery Parallel legs

Part number

DSS2x61-0045A

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

V _{RRM}	=		45	V
I _{FAV}	=	2x	60	Α
V _F	=	0	.65	V



Backside: isolated

SE72873

- Housing: SOT-227B (minibloc)
- Industry standard outline
- Cu base plate internal DCB isolated
- Isolation Voltage 3000 V
- Epoxy meets UL 94V-0
- RoHS compliant

Package:

				Ratings				
Symbol	Definition	Conditions		min.	typ.	max.	Unit	
V _{RRM}	max. repetitive reverse voltage		$T_{VJ} = 25^{\circ}C$			45	V	
I _R	reverse current	$V_R = 45 V$	T _{vJ} = 25°C			2	mA	
		$V_R = 45 V$	T _{vJ} = 125°C			10	mA	
V _F	forward voltage	$I_{F} = 60 A$	$T_{vJ} = 25^{\circ}C$			0.75	V	
		I _F = 120 A				0.94	V	
		$I_F = 60 A$	T _{vJ} = 125°C			0.65	V	
		I _F = 120 A				0.85	V	
I _{FAV}	average forward current	rectangular d = 0.5	$T_c = 110$ °C			60	Α	
V _{F0}	threshold voltage		T _{vJ} = 150°C			0.43	V	
r _F	slope resistance } for power loss of	calculation only				3.2	mΩ	
R _{thJC}	thermal resistance junction to case					0.80	K/W	
T _{vj}	virtual junction temperature			-40		150	°C	
P _{tot}	total power dissipation		$T_c = 25^{\circ}C$			150	W	
IFSM	max. forward surge current	t = 10 ms (50 Hz), sine	$T_{vJ} = 45^{\circ}C$			800	Α	
C	junction capacitance	$V_R = 5V; f = 1 MHz$	$T_{vJ} = 25^{\circ}C$		2.93		nF	

LIXYS

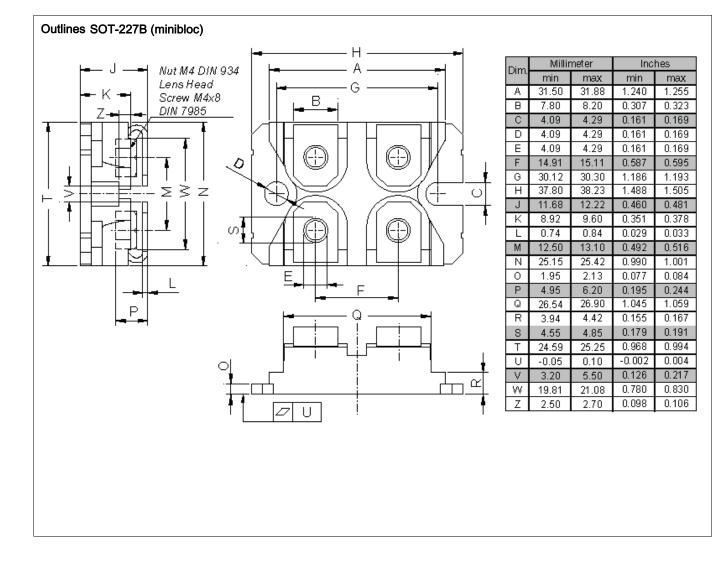
					Ratings				
Symbol	Definition	Condition	S		min.	typ.	max.	Unit	
I _{RMS}	RMS current	per termin	al				100	A	
RthCH	thermal resistance case to hea	atsink				0.10		K/W	
T _{stg}	storage temperature				-40		150	°C	
Weight						30		g	
M _D	mounting torque				1.1		1.5	Nm	
Μ _τ	terminal torque				1.1		1.5	Nm	
VISOL	isolation voltage	t = 1 seco	nd		3000			V	
		t = 1 minut	te		2500			V	
d _{Spp/App}	creepage striking distance of	n surface through air	terminal to terminal	10.5	3.2			mm	
d _{Spb/Apb}	creepage striking distance of	n surface through air	terminal to backside	8.6	6.8			mm	

Product Marking

Logo → □IXYS abcde ← Part No. YYWWZ XXXXXX DateCode Assembly Code Assembly Line

Ordering	Part Name	Marking on Product	Delivering Mode	Base Qty	Code Key
Standard	DSS2x61-0045A	DSS2x61-0045A	Tube	10	470449

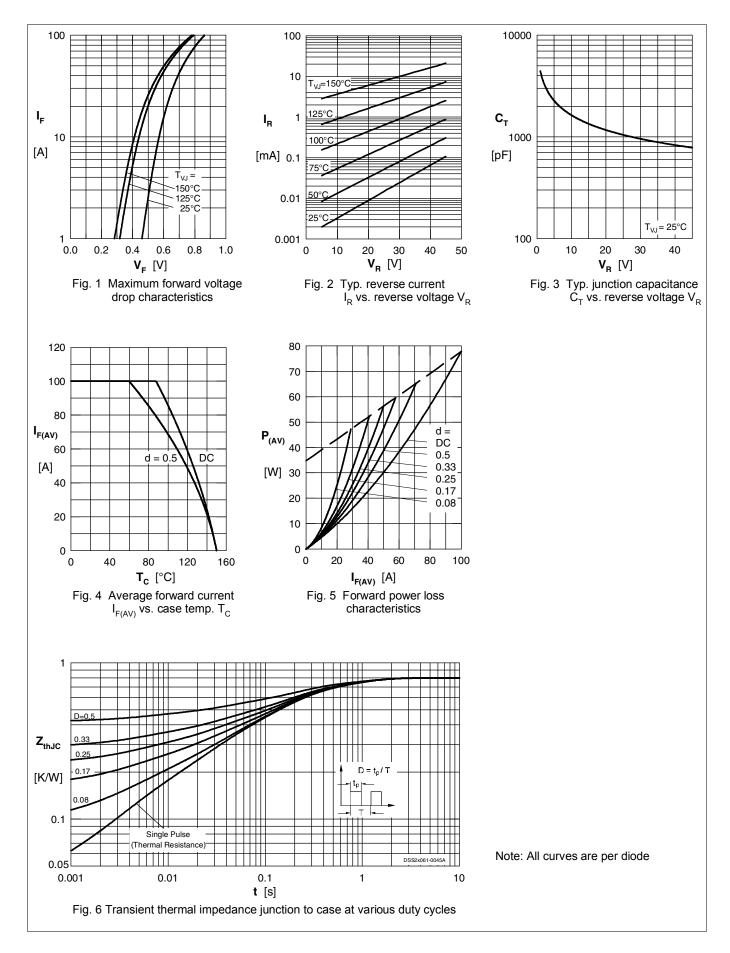




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DSS2x61-0045A



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