

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!



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Schottky Diode

High Performance Schottky Diode Low Loss and Soft Recovery Parallel legs

Part number

Very low Vf

low Irm values

protection circuits

• Low noise switching

DSS2x121-0045B

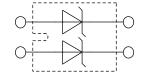
Features / Advantages:

• Extremely low switching losses

High reliability circuit operation

Low voltage peaks for reduced

• Improved thermal behaviour



Applications:

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

 $V_{RRM} = 45 V$ $I_{FAV} = 2x 120 A$ $V_{E} = 0.59 V$



Backside: isolated

FL E72873

Package:

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

				Ratings					
Symbol	Definition	Conditions		min.	typ.	max.	Unit		
V _{RRM}	max. repetitive reverse voltage		T _{VJ} = 25°C			45	V		
I _R	reverse current	V _R = 45 V	$T_{VJ} = 25^{\circ}C$			120	mA		
		$V_R = 45 V$	$T_{VJ} = 100$ °C			500	mΑ		
V_{F}	forward voltage	I _F = 120 A	$T_{VJ} = 25^{\circ}C$			0.62	V		
		$I_F = 240 A$				0.89	V		
		I _F = 120 A	T _{VJ} = 125°C			0.59	V		
		$I_F = 240 A$				0.90	V		
I _{FAV}	average forward current	rectangular d = 0.5	T _C = 100°C			120	Α		
V _{F0}	threshold voltage \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		T _{vJ} = 150°C			0.27	V		
r _F	slope resistance	calculation only				2.6	mΩ		
R _{thJC}	thermal resistance junction to case					0.40	K/W		
T _{vJ}	virtual junction temperature			-40		150	°C		
P _{tot}	total power dissipation		$T_{c} = 25^{\circ}C$			310	W		
I _{FSM}	max. forward surge current	t = 10 ms (50 Hz), sine	$T_{VJ} = 45^{\circ}C$			1600	Α		
C¹	junction capacitance	$V_R = 5V$; $f = 1 MHz$	$T_{VJ} = 25^{\circ}C$		5.86		nF		



			8					
Symbol	Definition	Condition	ıs		min.	typ.	max.	Unit
I _{RMS}	RMS current	per termin	al				150	Α
RthCH	thermal resistance case to hear	tsink				0.10		K/W
T _{stg}	storage temperature				-40		150	°C
Weight						30		g
M _D	mounting torque				1.1		1.5	Nm
\mathbf{M}_{T}	terminal torque				1.1		1.5	Nm
V _{ISOL}	isolation voltage	t = 1 seco	nd		3000			V
		t = 1 minu	te		2500			V
d _{Spp/App}	creepage striking distance on	surface through air	terminal to terminal	10.5	3.2			mm
d _{Spb/Apb}	creepage striking distance on	surface through air	terminal to backside	8.6	6.8			mm

Product Marking Logo → TIXYS abcde ← Part No. YYWWZ XXXXXX → A DateCode Assembly Code Assembly Line

Ordering	Part Name	Marking on Product	Delivering Mode	Base Qty	Code Key
Standard	DSS2x121-0045B	DSS2x121-0045B	Tube	10	478334



