



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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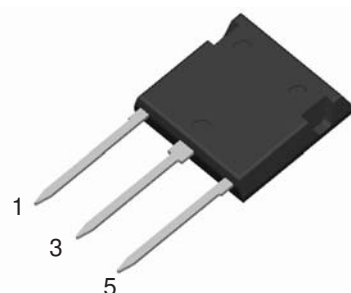
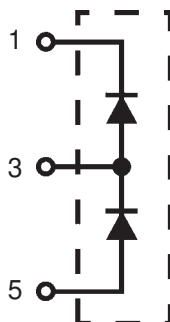


Dual Power Schottky Diode

in ISOPLUS i4-PAC™

FSS 100-008A

$$\begin{aligned} V_{RRM} &= 80 \text{ V} \\ V_F &= 0.9 \text{ V} \\ I_{F(AV)M} &= 90 \text{ A} \end{aligned}$$



Diodes

Symbol	Conditions	Maximum Ratings	
V_{RRM}		80	V
I_{FAV}	$T_C = 90^\circ\text{C}$; sine 180°	85	A
$I_{F(AV)M}$	$T_C = 90^\circ\text{C}$; d = 0.5 rectangular	90	A
P_{tot}	$T_C = 25^\circ\text{C}$ (per diode)	100	W

Symbol	Conditions	Characteristic Values		
		(T _{VJ} = 25°C, unless otherwise specified)		
		min.	typ.	max.
V_F	$I_F = 75 \text{ A}$; T _{VJ} = 25°C T _{VJ} = 125°C		0.9 0.8	1.0 V V
I_R	$V_R = V_{RRM}$; T _{VJ} = 25°C T _{VJ} = 125°C		2.5	2 mA mA
R_{thJC}	(per diode)			1.4 K/W

Features

- Schottky diodes
 - very low forward voltage
 - extremely fast switching
 - blocking capability optimized for elevated temperature
- ISOPLUS i4-PAC™ package
 - DCB isolated back surface
 - enlarged creepage towards heatsink
 - application friendly pinout
 - low inductive current path
 - high reliability
 - industry standard outline

Applications

- for use in
 - automotive drives and converters
 - hand held tools
 - low voltage power supplies
 - battery chargers
 - solar converters
- operating
 - as free wheeling diode of choppers for supply of motors or transformers
 - as high frequency secondary rectifier
 - anti paralleled to MOSFETs complementing their intrinsic body diode

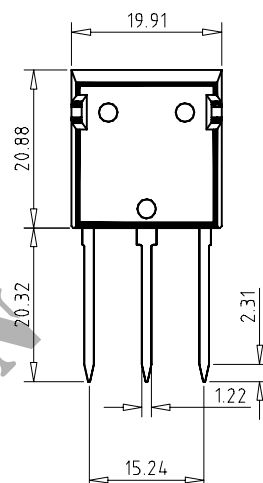
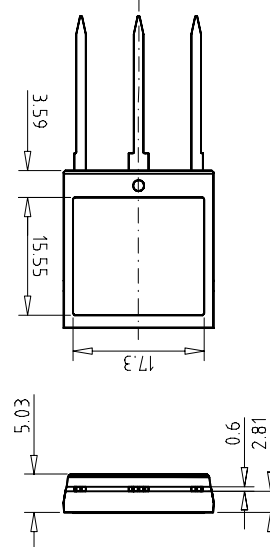
Recommended replacement:
DSSS 35-008AR

Data according to IEC 60747 and refer to a single diode unless otherwise stated.
IXYS reserves the right to change limits, test conditions and dimensions.

Component

Symbol	Conditions	Maximum Ratings	
T_{VJ}		-55...+175	°C
T_{stg}		-55...+125	°C
V_{ISOL}	$I_{ISOL} \leq 1 \text{ mA}; 50/60 \text{ Hz}$	2500	V~
F_c	mounting force with clip	20...120	N

Symbol	Conditions	Characteristic Values		
		min.	typ.	max.
C_p	coupling capacity between shorted pins and mounting tab in the case		40	pF
d_s, d_A	pin - pin	5.5		mm
d_s, d_A	pin - backside metal	5.5		mm
R_{thCH}	with heatsink compound		0.15	K/W
Weight			9	g

Dimensions in mm (1 mm = 0.0394")


NOT FOR NEW DESIGN