

# Dual Power Schottky Diode

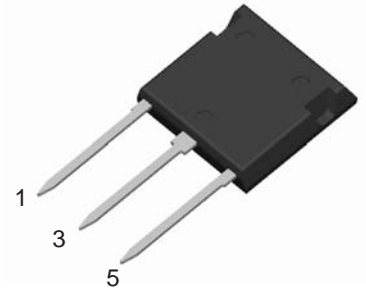
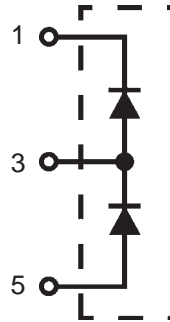
in ISOPLUS i4-PAC™

## FSS 100-008A

$$V_{RRM} = 80 \text{ V}$$

$$V_F = 0.9 \text{ V}$$

$$I_{F(AV)M} = 90 \text{ A}$$



### 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

### 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

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

### 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

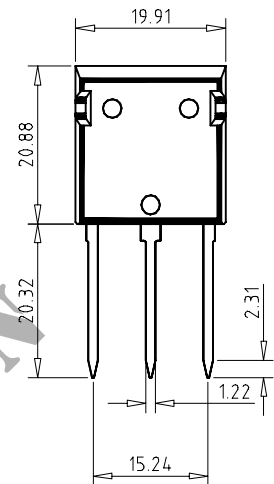
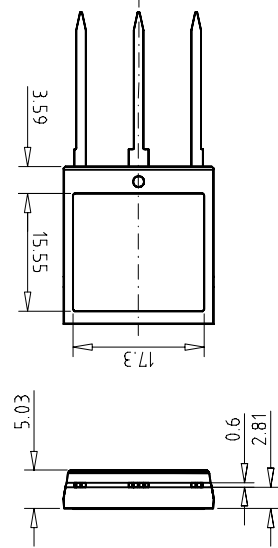
**Recommended replacement:  
DSSS 35-008AR**

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
<b>Weight</b>			9	g

**Dimensions in mm (1 mm = 0.0394")**


NOT FOR NEW DESIGN