



Features

- ✧ High current capability, low forward voltage
- ✧ Excellent high temperature stability
- ✧ Low power loss, and high efficiency
- ✧ High forward surge capability
- ✧ RoHS compliant, and Halogen free
- ✧ AEC-Q101 qualified

Mechanical Data

- ✧ Case: TO-277 small outline plastic package
- ✧ Terminal: Matte tin plated, solderable per MIL-STD-750, Method 2026
- ✧ Molding Compound Flammability Rating:UL 94V-0
- ✧ High temperature soldering guaranteed:
260°C /10second
- ✧ Packed with FRP substrate and epoxy underfilled

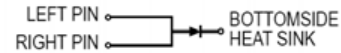
Applications

- ✧ Switching mode power supply applications
- ✧ Portable equipment battery applications
- ✧ High frequency rectification
- ✧ DC/DC converter
- ✧ Polarity protection applications

Ordering Information

- ✧ Device: YS10E100
- ✧ Package: TO-277
- ✧ Marking: 10E100
- ✧ Material: Halogen free
- ✧ Packing: Tape & 13" Reel
- ✧ Quantity per reel: 5,000pcs

Pin Configuration



Maximum Ratings @ T_A = 25°C unless otherwise specified

Symbol	Parameter	Value	Units
V _{RRM}	Repetitive Peak Reverse Voltage	100	V
I _{F(AV)}	Average Forward Current	10	A
I _{FSM}	Peak Forward Surge Current, 8.3ms single half sine-wave	120	A
T _J & T _{STG}	Junction and Storage Temperature	-50~+150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

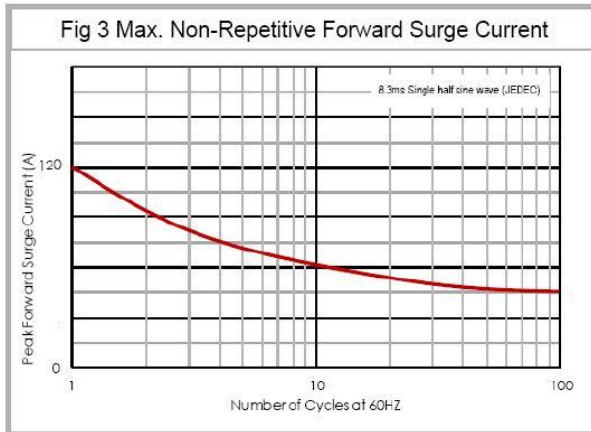
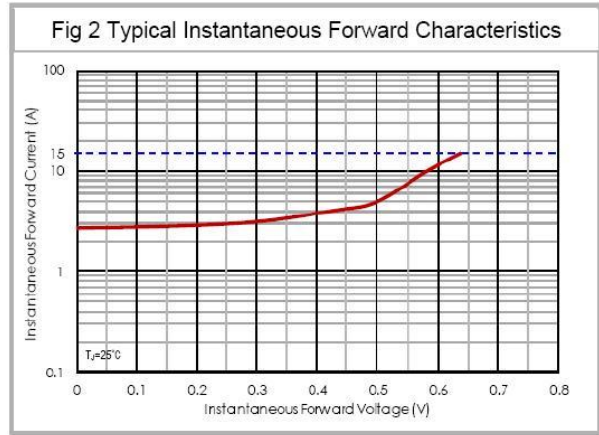
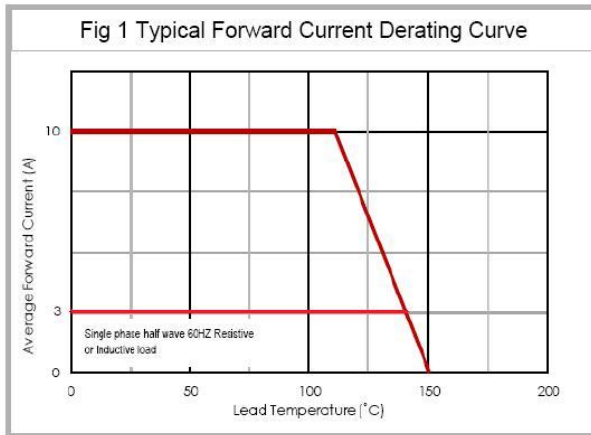
Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V _F	Forward Voltage	I _F = 3A		0.46	0.50	V
		I _F = 10A		0.68	0.72	V
V _R	Reverse Breakdown Voltage	I _R = 0.5mA	100	110		V
I _R	Reverse Leakage Current	V _R = 100V		120		μA
C _J	Junction Capacitance	f=1MHz, V _R =4V		600		pF
R _{th(JA)}	Thermal Resistance (note 1)			31		°C/W

Note 1: Polyimide PCB, 2oz. copper. Cathode pad dimensions 18.8x14.4mm. Anode pad dimensions 5.6x14.4mm

DEVICE CHARACTERISTICS

YS10E100-A

Electrical characteristic curves



PACKAGE OUTLINE AND DIMENSIONS

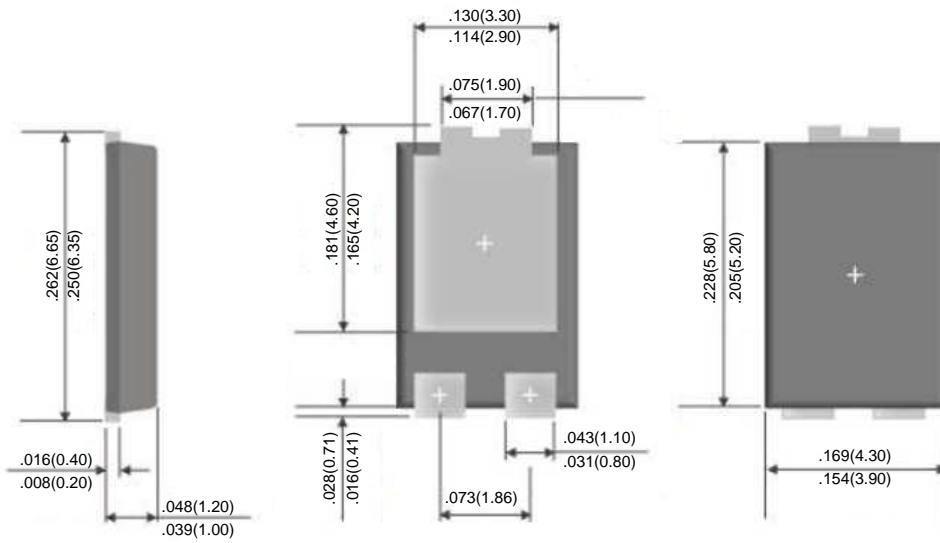
YS10E100-A

PACKAGE AND SUGGESTED PAD LAYOUT DIMENSION

TO-277

Outline drawing and Dimension

unit: inch (mm)



FOOT PRINT RECOMMENDATION	MARKING CODE						
<p style="text-align: center;">unit: mm</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>YS</td> <td>10E100</td> <td>XXXX</td> </tr> <tr> <td>Logo</td> <td>Device name</td> <td>Date code</td> </tr> </table>	YS	10E100	XXXX	Logo	Device name	Date code
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