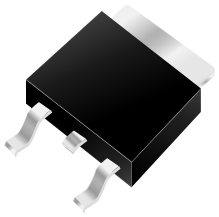
T10100SD

Excellent Schottky Barrier Rectifiers

Device P/N	
Part Number	**Remark**
T10100SD	General
T10100SD-H	Halogen Free



D-PAK

Primary Characteristics		
I_F	10	A
V_{RRM}	100	V
I_{FSM}	100	A
V_F	0.7	V
T_J max	150	°C

Features

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Excellent Barrier Rectifier Technology
- Soft, Fast Switching Capability

Mechanical Data

- Case: DPAK
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe.Solderable per MIL-STD-202, Method 208
- Weight: 0.34 grams (approximate)

Ordering Information

Part No.	Package	Packing
T10100SD	DPAK	3000 / Reel

Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	T10100SD	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC blocking voltage	V_{DC}	100	V
Maximum average forward rectified current	I_F	10	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100	A
Maximum Instantaneous Forward Voltage IF=2A @ 25°C IF=10A @ 25°C	V_F	 0.44 Typ. 0.70 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	3 10	mA
Typical Junction Capacitance(NOTE1)	C_j	545	pF
Typical Thermal Resistance	$R_{\theta JC}$	10	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C
Marking Code		T10100SD、10100SD	

NOTES:

1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

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Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

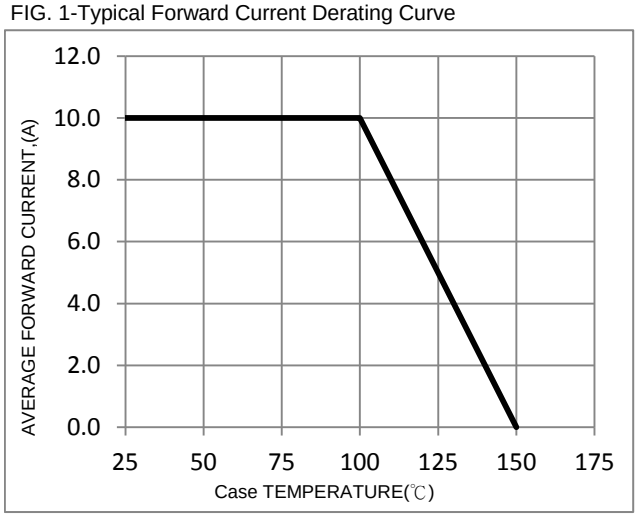


FIG. 2-Typical Forward Characteristics

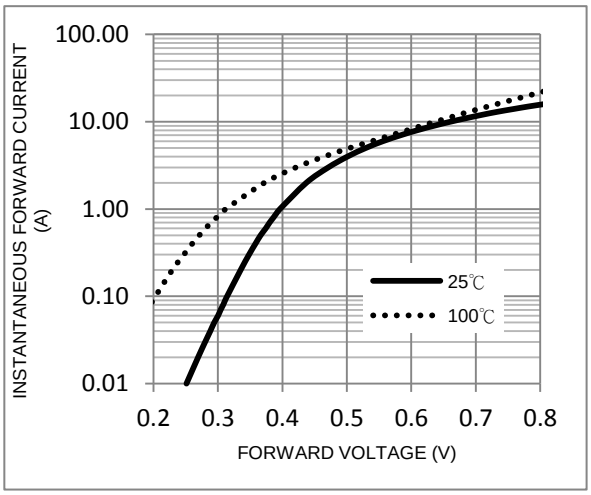


FIG. 3-Maximum Non-Repetitive Forward Surge Current

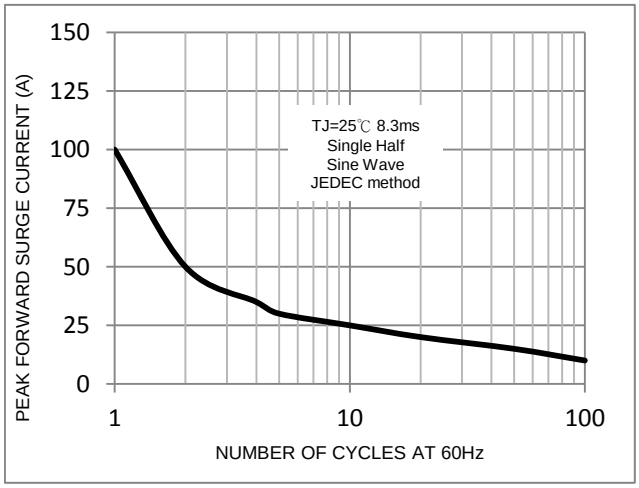


FIG. 4-Typical Reverse Characteristics

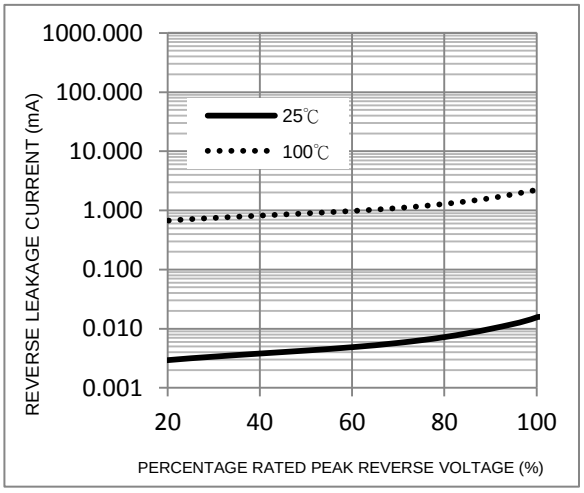
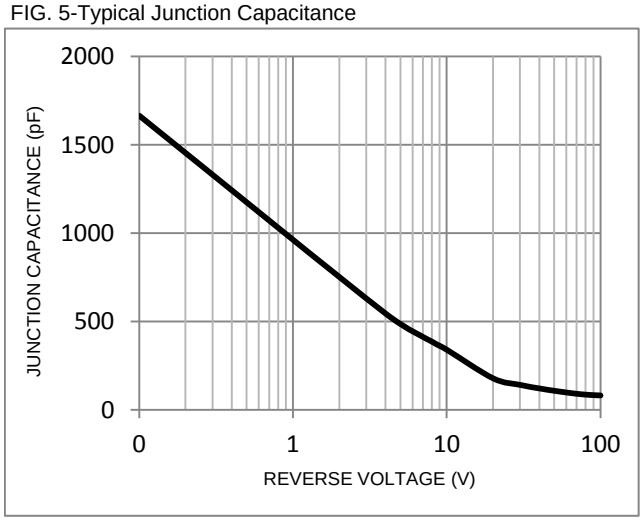


FIG. 5-Typical Junction Capacitance



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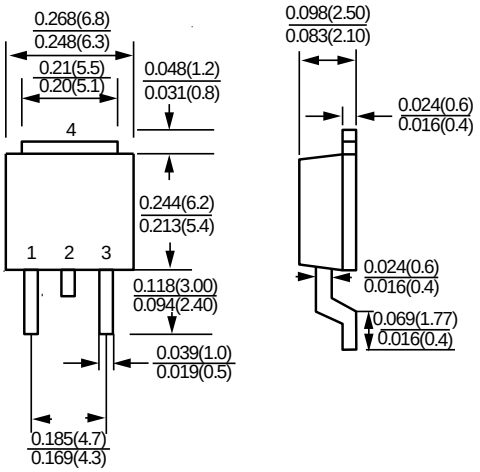
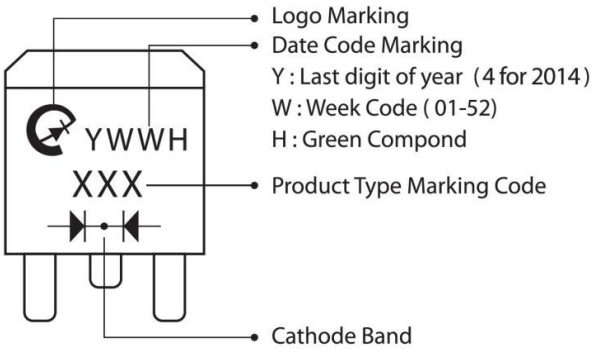
Package Outline Dimensions



D-PAK

Dimensions in inches and (millimeters)

Marking Information



Suggested Pad Layout

Dimension \ Outline	DPAK (mm)
A	4.57
B	1.50
C	7.00
D	7.00
E	2.50
F	11.60