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Technical Data
Data Sheet 2860, Rev. -

31DQ15 SCHOTTKY RECTIFIER

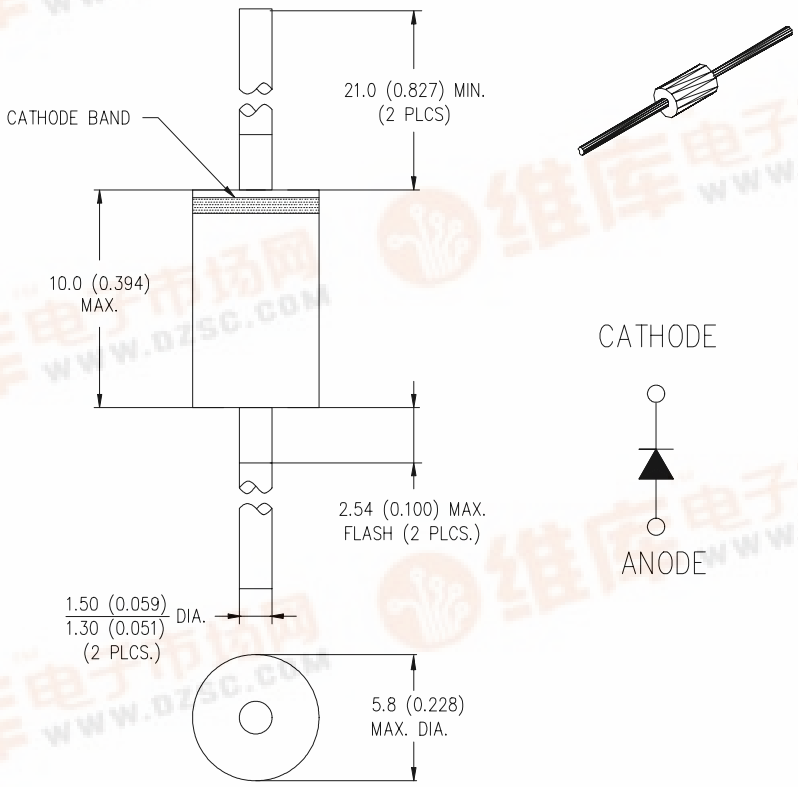
Applications:

- Switching power supply • Converters • Free-Wheeling diodes • Reverse battery protection

Features:

- Low profile, axial leaded outline
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability

Mechanical Dimensions: In Inches / mm



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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	150	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle @T_L = 53.4 °C, rectangular wave form	3.0	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine pulse	55	A

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@3 A, Pulse, T_J = 25 °C	0.86	V
	V_{F2}	@3 A, Pulse, T_J = 125 °C	0.70	V
Max. Reverse Current *	I_{R1}	@V_R = Rated V_R, Pulse, T_J = 25 °C	1	mA
	I_{R2}	@V_R = Rated V_R, Pulse, T_J = 125 °C	3	mA
Max. Junction Capacitance	C_T	@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz	110	pF
Typical Series Inductance	L_S	Measured lead to lead 5 mm from package body	9.0	nH
Max. Voltage Rate of Change (Rated V_R)	dv/dt		10,000	V/µs

* Pulse Width < 300µs, Duty Cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-40 to +175	°C
Max. Storage Temperature	T_{stg}	-	-40 to +175	°C
Maximum Thermal Resistance Junction to Ambient	$R_{\theta JA}$	DC operation	80	°C/W
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	DC operation	34	°C/W
Approximate Weight	wt	-	1.2	g
Case Style	DO-201AD			

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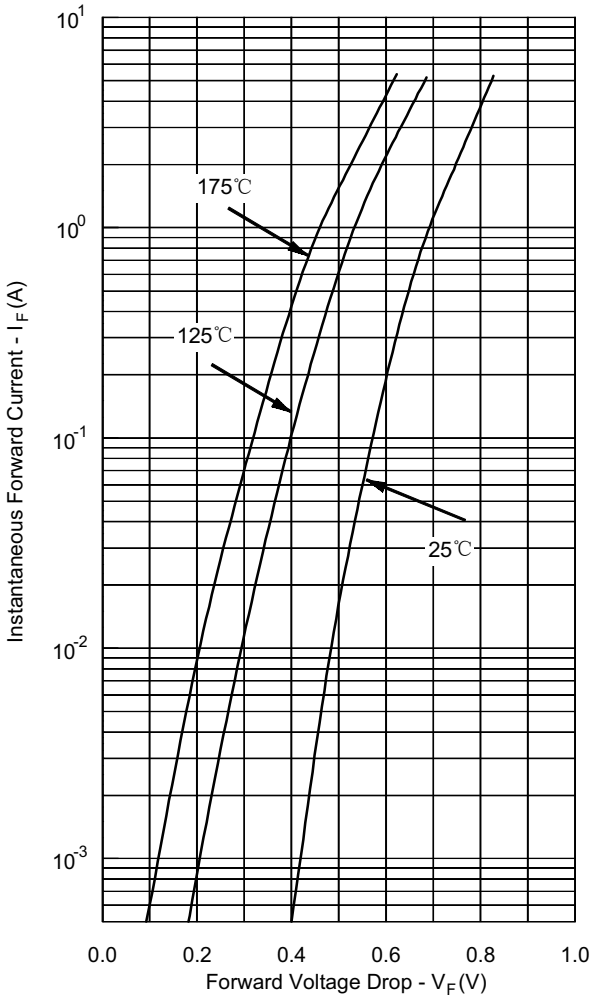
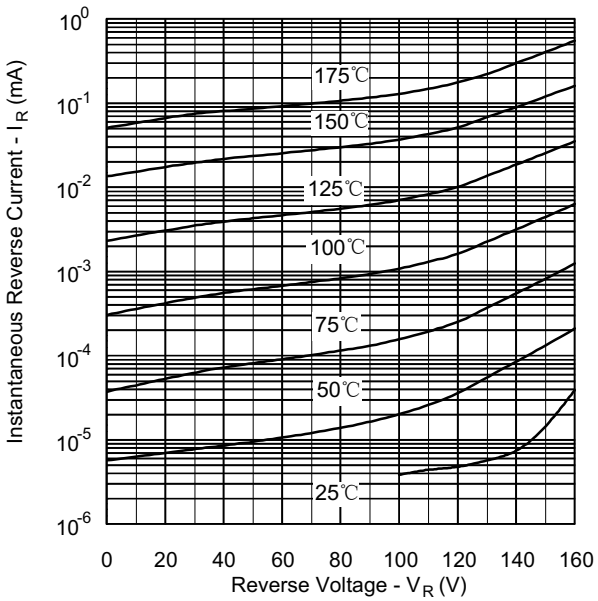
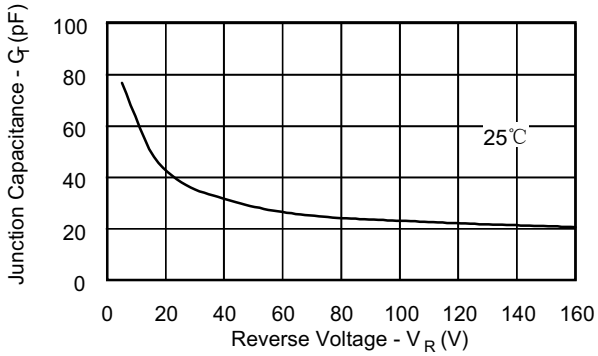
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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TECHNICAL DATA

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