

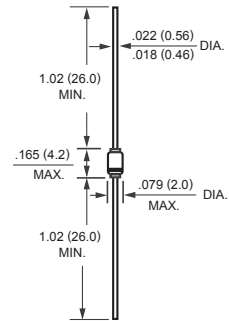
SILICON PLANAR SCHOTTKY DIODES

FEATURES

- * Fast Switching Device($T_{RR}<4.0nS$)
- * DO-35 Package (JEDEC)
- * Through-Hole Device Type Mounting
- * Hermetically Sealed Glass
- * Compression Bonded Construction
- * All external surfaces are corrosion resistant and leads are readily solderable

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	BAT43	UNITS
Maximum Forward Continuous Reverse Voltage	V_R	30	V
Maximum Forward Continuous Current @ $T_A=25^\circ C$	I_F	200	mAmps
Maximum Peak Forward Current @ $tp \leq 1s, d \leq 0.5$	I_{FRM}	500	mAmps
Surge Forward Current @ $tp \leq 10ms$	I_{FSM}	4	Amps
Maximum Power Dissipation @ $T_A=65^\circ C$	P_D	200	mW
Junction Temperature	T_J	125	$^\circ C$
Storage Temperature Range	T_{STG}	-65 to + 150	$^\circ C$

ELECTRICAL CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse breakdown voltage ($I_R=100\mu A$)	$V_{(BR)R}$	30	-	-	V
Reverse voltage leakage current ($V_R=25V, T_J=25^\circ C$) ($V_R=25V, T_J=100^\circ C$)	I_R	-	-	0.5 100	μA
Forward voltage Pulse Test $tp < 300\mu s, d < 2\%$ ($I_F=2mA$) ($I_F=15mA$) ($I_F=200mA$)	V_F	-	0.26 - -	0.33 0.45 1.0	V
Diode capacitance ($V_R=1, f=1MHz$)	C_D	-	7.0	-	pF
Reverse recovery time ($I_F=I_R=10mA, I_{RR}=1mA, R_L=100\Omega$)	t_{rr}	-	-	5	nS

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