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FDH444



DO-35 Color Band Denotes Cathode

Small Signal Diode

Absolute Maximum Ratings*

 $T_A = 25$ °C unless otherwise noted

Symbol	Parameter	Value	Units	
V_{RRM}	Maximum Repetitive Reverse Voltage	150	V	
I _{F(AV)}	Average Rectified Forward Current	200	mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 4.0	A A	
T _{stg}	Storage Temperature Range	-65 to +200	°C	
TJ	Operating Junction Temperature	175	°C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

Electrical Characteristics T₄ = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V_R	Breakdown Voltage	$I_R = 100 \mu A$	150		V
V _F	Forward Voltage	I _F = 200 mA I _F = 300 mA		1.1 1.2	V V
I _R	Reverse Current	V _R = 100 V V _R = 100 V, T _A = 150°C		50 100	nA μA
C _T	Total Capacitance	$V_R = 0, f = 1.0 \text{ MHz}$		2.5	pF
t _{rr}	Reverse Recovery Time	$I_F = I_R = 30 \text{ mA},$ $R_L = 100 \Omega, I_{rr} = 3.0 \text{mA}$		60	ns

¹⁾ These ratings are based on a maximum junction temperature of 200 degrees C.
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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