

FEATURES

I Low cost, Low leakage

| Low forward voltage drop

I High current capability



MECHANICAL DATA

A	PP	R	O	VA	LS
		_			

Case: Molded plastic, DO-15 Polarity: Color band denotes cathode end		Compliance with 2011/65/EU	
		Compliance with IEC61249-2-21:2003	
Mounting position: Any			

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

Parameter		Symbol	R2000HE	Unit	
Marking			R2000HE		
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	2000		
Maximum RMS Voltage Maximum DC Blocking Voltage		V _{RMS}	1400	V	
		V _{DC}	2000		
Maximum Average Forward Rectified Current at T _A = 50°C		Io	200	mA	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	30	А	
Typical Current Square Time		I²t	3.7	A ² Sec	
Maximum Instantaneous Forward Voltage at 0.2A DC		V _F	4.0	V	
Maximum DC Reverse Current	T _A =25°C	I _R	5.0		
at Rated DC Blocking Voltage	T _A =100°C		50	μΑ	
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at T _L =75°C			30		
Typical Junction Capacitance (Note 1)		C	30	pF	
T. ColTlean ID. Color		$R_{\theta JA}$	65	°C /\\	
Typical Thermal Resistance		R _{ejl}	30	°C/W	



MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

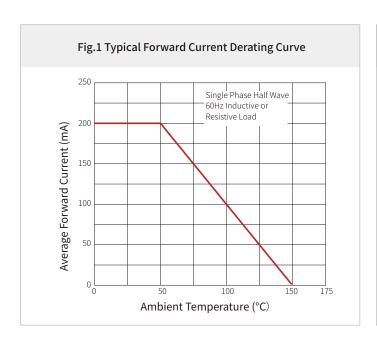
Parameter	Symbol	R2000HE	Unit
Maximum Reverse Recovery Time (Note 2)	T _{rr}	75	nSec
Operating and Storage Temperature Range	$T_{j}T_{STG}$	-55~+150	°C

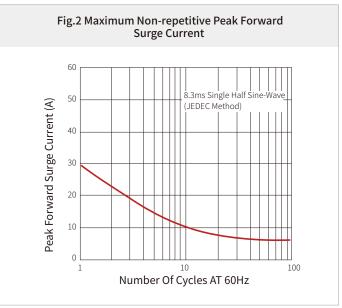
Note:

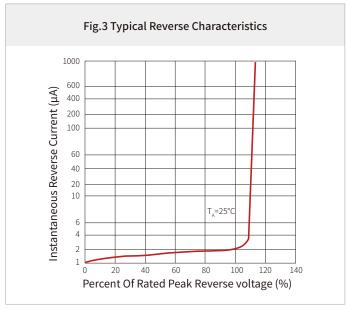
1. Measured at 1 MHZ and applied reverse voltage of 4.0 volts

2.Test Conditions: I_{F} =0.5A, I_{R} =-1.0A, I_{RR} =-0.25A

CHARACTERISTIC CURVES

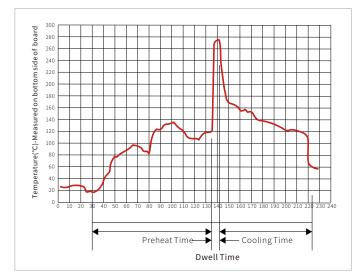






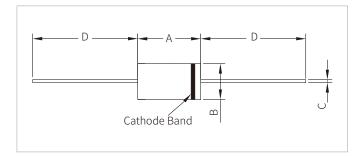


WAVE SOLDERING



	Wave Parameter	Lead-free assembly
	Temperature Min	100°C
Pre Heat	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solderpo	t Temperature	280°C Max
Solder Dv	vell Time	2-5 seconds

DO-15 PACKAGE INFORMATION



Ref.	Millin	neters	Inches		
	Min.	Max.	Min.	Max.	
А	5.80	7.60	0.230	0.300	
В	2.60	3.60	0.104	0.140	
С	0.70	0.90	0.026	0.034	
D	25.40	-	1.000	-	

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
R2000HE	DO-15	4000pcs	Вох



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By QR Code





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Machat

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