

# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

R1200 THRU R3000

## 

#### **FEATURES**

- \* Low cost
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability

#### MECHANICAL DATA

\* Case: Molded plastic

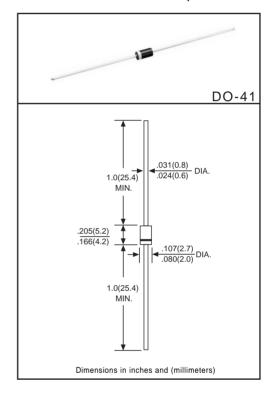
\* Epoxy: UL 94V-0 rate flame retardant

\* Lead: MIL-STD-202E, Method 208 guaranteed

\* Polarity: Color band denotes cathode end

\* Mounting position: Any \* Weight: 0.35 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	R1200	R1500	R1800	R2000	R2500	R3000	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	1200	1500	1800	2000	2500	3000	Volts
Maximum RMS Volts		VRMS	840	1050	1260	1400	1750	2100	Volts
Maximum DC Blocking Voltage		VDC	1200	1500	1800	2000	2500	3000	Volts
Maximum Average Forward Rectified Current at TA = 50°C		lo	500				200		
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30					Amps	
Maximum Instantaneous Forward Voltage at 0.5A/0.2A DC		VF		2.0	3.0		4.0	Volts	
Maximum DC Reverse Current	@TA = 25°C				5	.0			uAmps
at Rated DC Blocking Voltage	@TA =100°C	l <sub>R</sub>			1	00			
Maximum Full Load Reverse Current Average, Full Cycle .375* (9.5mm) lead length at T L = 75°C			30					uAmps	
Typical Junction Capacitance (Note)		CJ	30					pF	
Operating and Storage Temperature Range		TJ, TSTG	-55 to + 175					°C	

NOTES: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

REV-3,MAR,2017 1 www.dccomponents.com

# **RATING AND CHARACTERISTIC CURVES (R1200 THRU R3000)**

FIG. 1 - TYPICAL FORWARD CURRNET DERATING CURVE

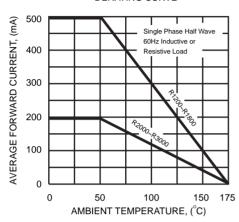


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

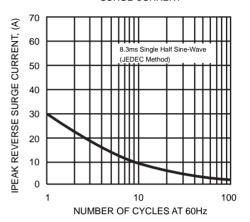
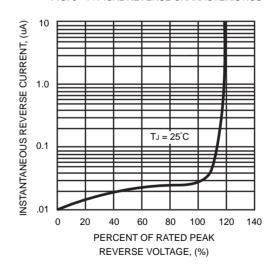


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS



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