

## Standard Recovery Diodes (Stud Version), 25 A



DO-203AA (DO-4)

### FEATURES

- High surge current capability
- Stud cathode and stud anode version
- Wide current range
- Types up to 1200 V  $V_{RRM}$
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


 RoHS  
COMPLIANT

### TYPICAL APPLICATIONS

- Battery charges
- Converters
- Power supplies
- Machine tool controls

### PRODUCT SUMMARY

$I_{F(AV)}$	25 A
Package	DO-203AA (DO-4)
Circuit configuration	Single diode

### MAJOR RATINGS AND CHARACTERISTICS

PARAMETER	TEST CONDITIONS	VALUES	UNITS
$I_{F(AV)}$		25	A
	$T_C$	120	°C
$I_{F(RMS)}$		40	A
$I_{FSM}$	50 Hz	356	A
	60 Hz	373	
$I^2t$	50 Hz	636	A <sup>2</sup> s
	60 Hz	580	
$V_{RRM}$	Range	100 to 1200	V
$T_J$		- 65 to 175	°C

### ELECTRICAL SPECIFICATIONS

#### VOLTAGE RATINGS

TYPE NUMBER	VOLTAGE CODE	$V_{RRM}$ , MAXIMUM REPETITIVE PEAK REVERSE VOLTAGE V	$V_{RSM}$ , MAXIMUM NON-REPETITIVE PEAK VOLTAGE V	$V_{R(BR)}$ , MINIMUM AVALANCHE VOLTAGE V (1)	$I_{RRM}$ MAXIMUM AT $T_J = 175$ °C mA
V 25 A(R)	10	100	150	-	12
	20	200	275	-	
	40	400	500	500	
	60	600	725	750	
	80	800	950	950	
	100	1000	1200	1150	
	120	1200	1400	1350	

#### Note

(1) Avalanche version only available from  $V_{RRM}$  400 V to 1200 V

