

### FAST RECOVERY DIODES

Stud Version

#### Features

- High power FAST recovery diode series
- 1.5 to 2.0  $\mu$ s recovery time
- High voltage ratings up to 1600V
- High current capability
- Optimized turn on and turn off characteristics
- Low forward recovery
- Fast and soft reverse recovery
- Compression bonded encapsulation
- Stud version JEDEC DO-205AB (DO-9)
- Maximum junction temperature 125°C

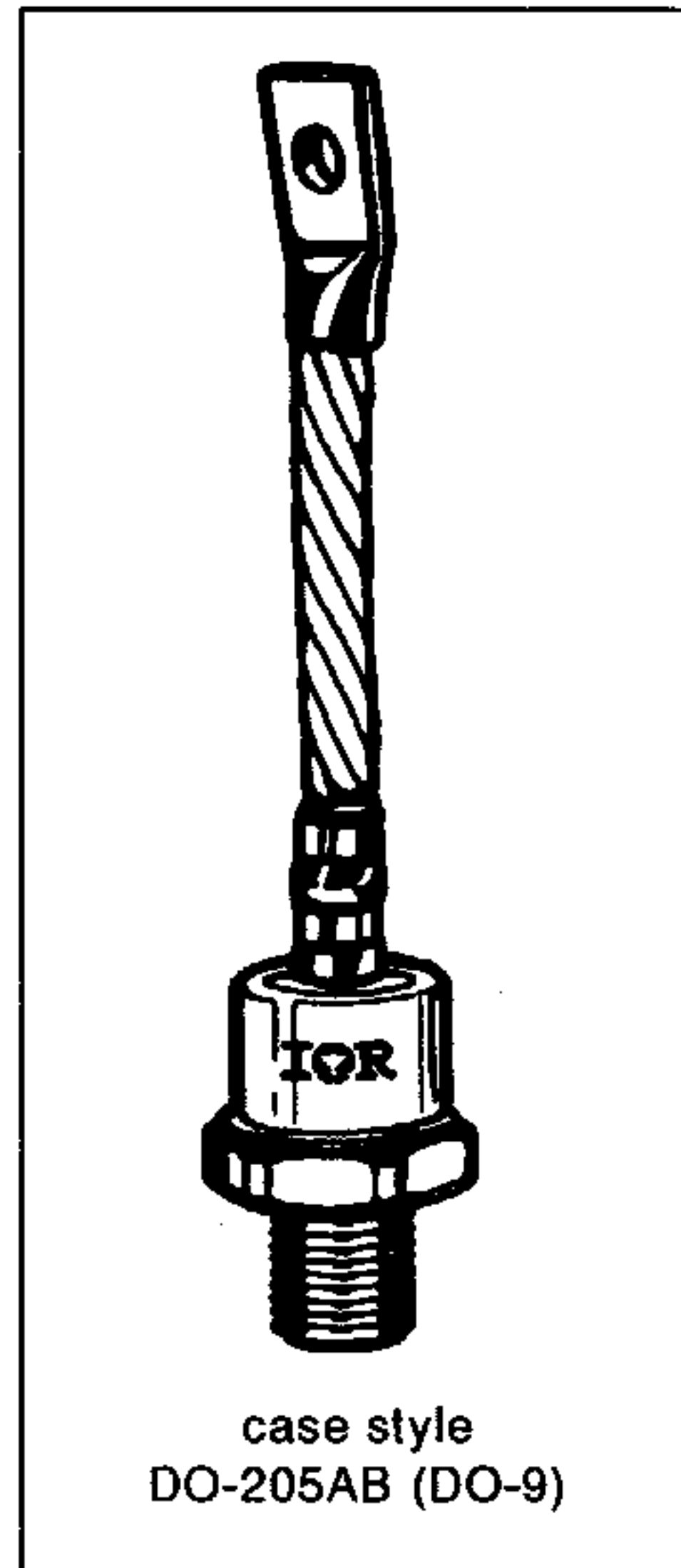
250A

#### Typical Applications

- Snubber diode for GTO
- High voltage free-wheeling diode
- Fast recovery rectifier applications

#### Major Ratings and Characteristics

Parameters	SD253N/R	Units
$I_{F(AV)}$	250	A
@ $T_C$	85	°C
$I_{F(RMS)}$	392	A
$I_{FSM}$ @ 50Hz	5350	A
@ 60Hz	5600	A
$I^2t$ @ 50Hz	143	KA <sup>2</sup> s
@ 60Hz	130	KA <sup>2</sup> s
$V_{RRM}$ range	400 to 1600	V
$t_{rr}$ range	1.5 to 2.0	$\mu$ s
@ $T_J$	25	°C
$T_J$	- 40 to 125	°C



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