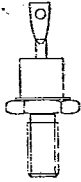
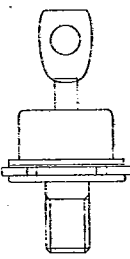


Rectifiers, Avalanche

6 TO 70 AMPS

International
IOR Rectifier

T-01-01

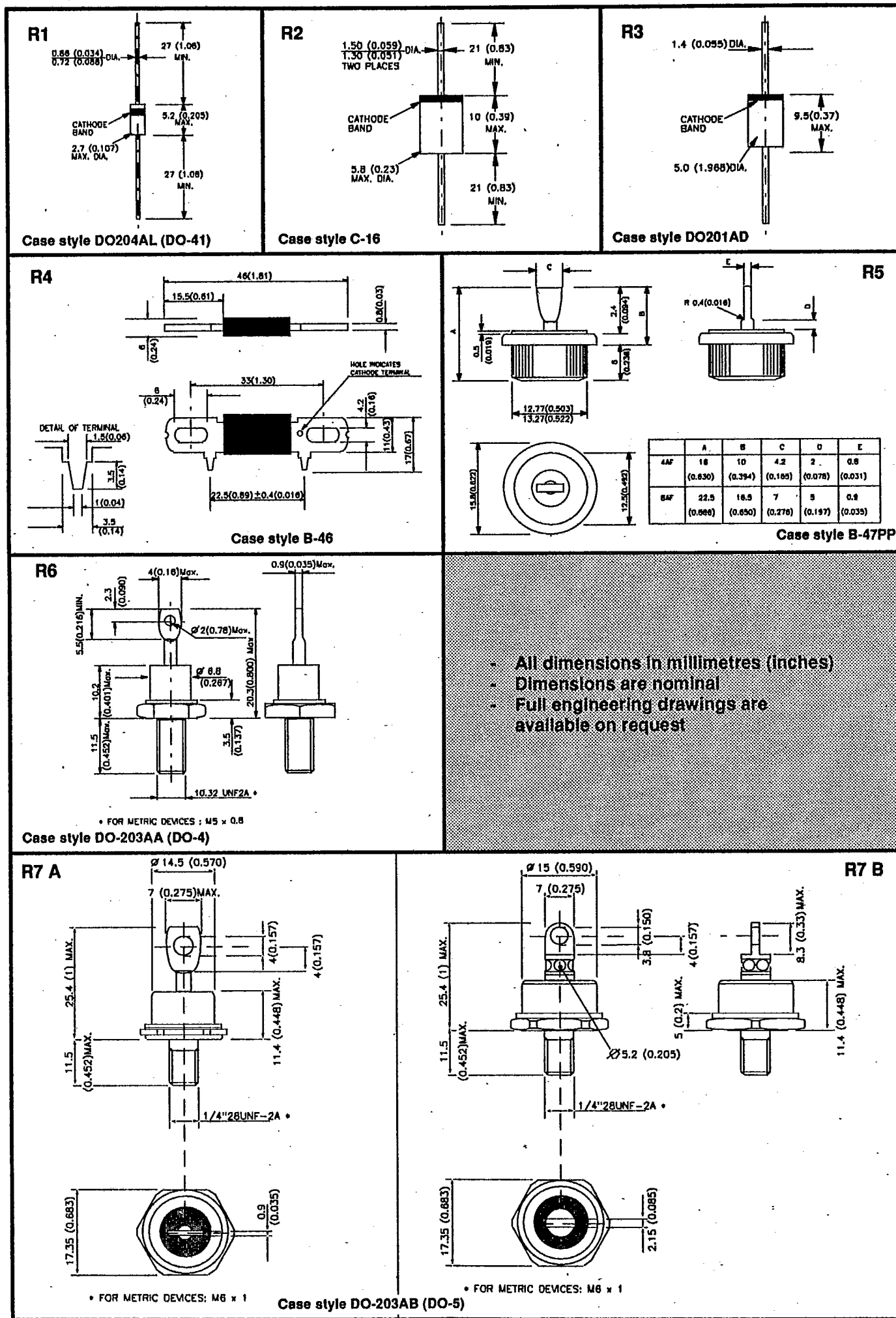
Part number	V_{RRM} (V)	$I_{F(AV)}@T_C$		I_{FSM} (1)		V_{FM} $\pi \times I_{F(AV)}$ (V)	R_{thJC} DC (°C/W)	P_R (2) (kW)	Case Outline Number	Notes	Case style
		(A)	(°C)	50Hz (A)	60Hz (A)						
A6F40 A6F60 A6F80 A6F100 A6F120	400 600 800 1000 1200	6	158	134	141	1.10	2.50	4	R6	(3) (4)	DO-203AA (DO-4) 
A12F40 A12F60 A12F80 A12F100 A12F120	400 600 800 1000 1200	12	144	225	235	1.20	2.00	7	R6	(3) (4)	
A16F40 A16F60 A16F80 A16F100 A16F120	400 600 800 1000 1200	16	140	295	310	1.23	1.60	15	R6	(3) (4)	
40HA40 40HA60 40HA80 40HA100 40HA120 40HA140 40HA160	400 600 800 1000 1200 1400 1600	40	140	480	500	1.30	1.00	11	R7 A	(3) (4)	DO-203AB (DO-5) 
70HA40 70HA60 70HA80 70HA100 70HA120 70HA140 70HA160	400 600 800 1000 1200 1400 1600	70	140	1000	1050	1.35	0.45	20	R7 A	(3) (4)	

(1) 100% V_{RRM} reapplied.(2) 10 μ s square pulse, $T_J = T_J$ max.

(3) Cathode-to-stud. For anode-to-stud, add "R" to basic part number (e.g., A12FR100).

(4) Available with metric stud; to specify add "M" to the end of part number (e.g., 40HA140M, A12F100M).

T-03-01



All dimensions in millimetres (inches)
Dimensions are nominal
Full engineering drawings are available on request

Case outlines

INTERNATIONAL RECTIFIER

R8

	A	B	C	D	E	F	
mm	114.3	41.27	27.0	8.81	16.25	8.70	R8 A
Inches	4.5	1.625	1.063	0.347	0.64	0.264	
mm	170	38	24.0	12.5	16.25	8.3	R8 B
Inches	6.69	1.496	0.945	0.492	0.640	0.32	

Case style DO-8 (DO205AA)

R9

	A	B	C	D	E	F	
mm	114.3	41.27	25.16	8.81	16.26	6.70	R9 A
Inches	4.5	1.625	0.951	0.347	0.64	0.264	
mm	170	43	29	14	16.5	8.3	R9 B
Inches	6.69	1.693	1.14	0.551	0.65	0.32	

Case style DO-8 (DO205AA)

R10

	A	B	C	D	E	F	
mm	114.3	41.27	27.0	8.81	16.26	6.70	R10 A
Inches	4.5	1.625	1.063	0.347	0.64	0.264	
mm	170	38	24	12.5	21	8.3	R10 B
Inches	6.69	1.496	0.945	0.492	0.826	0.32	

(*) A = 135 (5.3) only for 45L... Series
 Case style DO-30 (DO205AC)

R11

	A	B	C	D	E	F	
mm	114.3	41.27	25.16	8.81	16.26	8.70	R11 A
Inches	4.5	1.625	0.951	0.347	0.64	0.264	
mm	170	43	29	14	21	8.3	R11 B
Inches	6.69	1.693	1.14	0.51	0.821	0.32	

Case style DO-30 (DO205AC)

R12

Case style B-42

R13

	A	B	C	D	E	F	
mm	142.5	57.15	30.22	9.14	21.03	8.59	R13 A
Inches	5.60	2.250	1.19	0.380	0.828	0.338	
mm	210	53	28.5	16	21	8.3	R13 B
Inches	8.26	2.08	1.12	0.62	0.826	0.32	

Case style DO-9 (DO205AB)

R13 C

Case style DO-9 (DO205AB)

R14

	A	B	C	D	E	F	
mm	143.0	57.15	29.33	8.94	21.03	8.39	R14 A
Inches	5.63	2.250	1.159	0.352	0.828	0.330	
mm	210	53	28.5	16	21	8.3	R14 B
Inches	8.26	2.08	1.12	0.62	0.826	0.32	

Case style DO-9 (DO205AB)

R15

Case style B-53

R16

Case style B-54

All dimensions in millimetres (inches)
 Dimensions are nominal
 Full engineering drawings are
 available on request

T-03-01

INTERNATIONAL RECTIFIER

Case outlines

R17

CERAMIC HOUSING

U.S. standard case style

3/4" x 16 UNF-2A
 M24 x 1.5 metric device

	A	B	C	D	E	F	G	H	
mm	243	27.81	35.61	11.50	10.06	25.14	42.84	69.85	R17A
Inches	9.58	1.095	1.402	0.453	0.396	0.990	1.687	2.750	
mm	250	27.5	47	21	10.5	26	44.5	80	R17B
Inches	9.84	1.08	1.85	0.83	0.413	1.023	1.75	3.15	

*B = 20.5(0.807), only for metric devices

Case style B-8

R18

3.58 (0.140) DIA. NOM. x
 1.83 (0.072) DEEP MIN. BOTH ENDS

CREEPAGE DISTANCE : 12.45 (0.490) MIN.
 STRIKE DISTANCE : 10.42 (0.410) MIN.

	A	B	C	D	
mm	41.27	0.77	37.08	13.65/14.35	R18 A
Inches	1.625	0.030	1.460	0.537/0.565	
mm	42	0.3	38.1	13.1/14.4	R18 B
Inches	1.653	0.011	1.5	0.515/0.568	

Case style DO-200AA

R19

3.58 (0.140) DIA. NOM. x
 1.78 (0.070) DEEP MIN. BOTH ENDS

57.15 (2.250) DIA. MAX.

0.782 (0.030)

34.03 (1.340) DIA. MAX. TWO PLACES

28.72 (1.052)

25.86 (0.910)

53.08 (2.090) DIA. MAX.

CREEPAGE DISTANCE: 38.8 (1.520)
 STRIKE DISTANCE: 23.12 (0.910)

Case style DO-200AB

R20

3.52 (0.139) DIA. NOM. x
 1.77 (0.070) DEEP MIN. BOTH ENDS

44.91 (1.769) DIA. MAX.

25.27 (0.995) DIA. MAX. TWO PLACES

CREEPAGE DISTANCE: 11.18 (0.440)
 STRIKE DISTANCE: 7.82 (0.300)

	A	B	C	
mm	0.78	40.26	14.68/15.32	R20 A
Inches	0.030	1.585	0.585/0.611	
mm	0.3	40.1	14.15/15.1	R20 B
Inches	0.011	1.578	0.557/0.594	

Case style B-43

R21

3.58 (0.140) DIA. NOM. x
 2.04 (0.080) DEEP MIN. BOTH ENDS

74.29 (2.925) DIA. MAX.

1.40 (0.055) MIN. TWO PLACES

47.82 (1.875) DIA. MAX. TWO PLACES

27.05 (1.065)

25.93 (1.021)

87.05 (2.840) DIA. MAX.

CREEPAGE DISTANCE: 32.28 (1.270)
 STRIKE DISTANCE: 23.78 (0.936)

Case style DO-200AC

R22

3.58 (0.141) DIA. NOM. x
 1.78 (0.070) DEEP MIN. BOTH ENDS

111.12 (4.375) DIA. MAX.

0.87 (0.034) MIN. TWO PLACES

75.15 (2.880) DIA. MAX. TWO PLACES

37.21 (1.465)

100.33 (3.950) DIA. MAX.

CREEPAGE DISTANCE: 51.82 (2.04) MIN.
 STRIKE DISTANCE: 32.52 (1.280) MIN.

Case style B-44

- All dimensions in millimetres (Inches)
- Dimensions are nominal
- Full engineering drawings are available on request