

Fast Recovery Epitaxial Diodes FRED Chips

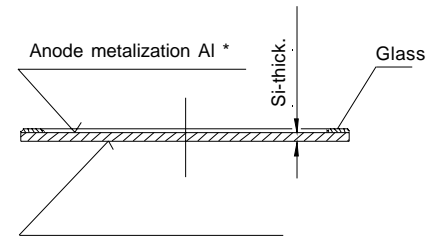
Type $T_{VJM} = 150^{\circ}\text{C}$	V_{RRM} min V	I_R $T_J = 25^{\circ}\text{C}$ $V_R = 0.8 \cdot V_{RRM}$ μA	I_R $T_J = 25^{\circ}\text{C}$ $V_R = V_{RRM}$ mA	I_R $T_J = 125^{\circ}\text{C}$ $V_R = 0.8 \cdot V_{RRM}$ mA	$I_{F(AV)M}$ ① rectangular $d = 0.5$ A	@ T_c $^{\circ}\text{C}$	R_{thJC} (TO-247) K/W
		DWEP 27 - 02	200	100	0.2	5	54
DWEP 37 - 02		150	0.35	11	91	70	0.8
DWEP 77 - 02		500	0.65	20	244	70	0.26
DWEP 8 - 06	600	12	0.025	1.5	TBD	-	-
DWEP 12 - 06		10	0.02	1.5	8	115	2.5
DWEP 15 - 06		25	0.05	3	12	100	2.0
DWEP 23 - 06		50	0.1	7	30	85	1.0
DWEP 25 - 06		50	0.1	7	30	85	1.0
DWEP 35 - 06		100	0.2	14	60	70	0.8
DWEP 55 - 06		500	3.0	17	80	70	0.4
DWEP 75 - 06		750	5.0	20	162	70	0.26
DWEP 3 - 10	1000	75	0.5	2	TBD	-	-
DWEP 10 - 10		150	1.0	4	12	100	1.6
DWEP 18 - 10		250	1.5	7	30	85	0.9
DWEP 20 - 10		250	1.5	7	30	85	0.9
DWEP 30 - 10		500	3.0	14	60	60	0.7
DWEP 50 - 10		500	3.0	17	82	70	0.4
DWEP 70 - 10		750	5.0	20	129	70	0.26
DWEP 6 - 12	1200	100	0.15	2	TBD	-	-
DWEP 9 - 12		150	1.0	4	12	100	1.6
DWEP 17 - 12		250	1.5	7	30	85	0.9
DWEP 19 - 12		250	1.5	7	30	85	0.9
DWEP 29 - 12		500	3.0	14	60	60	0.7
DWEP 49 - 12		500	2.1	17	77	70	0.4
DWEP 69 - 12		750	3.4	22	123	70	0.26

① Specified values refer to chip only, assembly parts are not included.

② Specified values can only be obtained in void-free assemblies according to our assembly recommendations.

Dimensions in mm

Type	Si-thick. mm	A mm	B mm	C mm	D mm	E mm
DWEP 27 - 02	0.390	4.45	4.45	3.45	3.45	0.200
DWEP 37 - 02		6.20	6.20	5.20	5.20	0.200
DWEP 77 - 02		8.31	7.22	7.31	6.22	0.200
DWEP 8 - 06	0.415	3.60	1.80	2.70	0.30	0.250
DWEP 12 - 06		2.40	2.40	1.46	1.46	0.230
DWEP 15 - 06		3.25	3.25	2.25	2.25	0.200
DWEP 23 - 06		5.50	3.50	4.50	2.50	
DWEP 25 - 06		4.45	4.45	3.45	3.45	
DWEP 35 - 06		6.20	6.20	5.20	5.20	
DWEP 55 - 06		8.65	4.95	7.65	3.95	
DWEP 75 - 06		8.91	7.22	7.91	6.22	
DWEP 3 - 10	0.455	3.60	1.80	2.70	0.90	0.250
DWEP 10 - 10		3.25	3.25	2.25	2.25	0.200
DWEP 18 - 10		5.50	3.50	4.50	2.50	
DWEP 20 - 10		4.45	4.45	3.45	3.45	
DWEP 30 - 10		6.20	6.20	5.20	5.20	
DWEP 50 - 10		8.65	4.95	7.65	3.95	
DWEP 70 - 10		8.91	7.22	7.91	6.22	
DWEP 6 - 12	0.475	2.40	2.40	1.46	1.46	0.230
DWEP 9 - 12		3.25	3.25	2.25	2.25	0.200
DWEP 17 - 12		5.50	3.50	4.50	2.50	
DWEP 19 - 12		4.45	4.45	3.45	3.45	
DWEP 29 - 12		6.20	6.20	5.20	5.20	
DWEP 49 - 12		8.65	4.95	7.65	3.95	
DWEP 69 - 12		8.91	7.22	7.91	6.22	
Tolerance	± 0.05	-0.1	-0.1	+0.1	+0.1	+0.1



Cathode metalization Ti/Ni/Ag

* alternative on request Ti/Ni/Ag

Example: DWEP 25-06S

S = solderable topside

