WEITRON

FFM301 thru FFM307

Surface Mount Fast Recovery Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
50 TO 1000 VOLTS
FORWARD CURRENT
3.0 AMPERE

Features:

* Plastic package has Underwriters Laboratory
* Flammability Classification 94V-O Utilizing Flame
* Retardant Epoxy Molding Compound.
* For surface mounted applications.
* Exceeds environmental standards of MIL-S-19500 / 228
* Low leakage current.

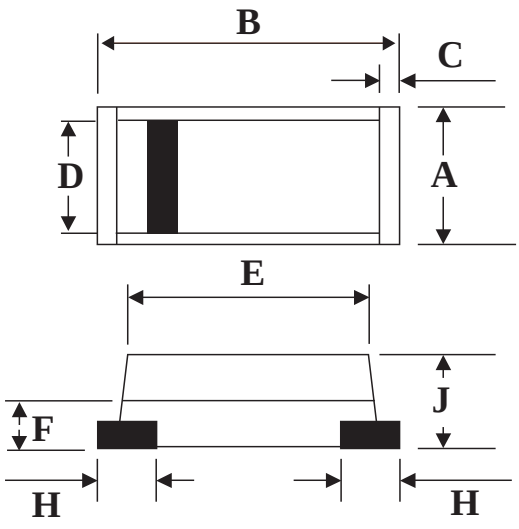
SMC-1

Mechanical Data:

* Case : Molded plastic, JEDEC DO-214AB
* Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
* Polarity : Indicated by cathode band
* Mounting Position : Any
* Weight : 0.195 gram

SMC-1 Outline Dimension

unit:mm



SMC-1		
Dim	**Min**	**Max**
A	4.20	4.80
B	6.60	7.20
C	0.30(TYP)	-
D	3.60	3.80
E	5.80	6.20
F	0.80(TYP)	-
H	1.00(TYP)	-
J	1.90	2.50

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Characteristics	Symbol	FFM 301	FFM 302	FFM 303	FFM 304	FFM 305	FFM 306	FFM 307	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=55°C	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	100							A
Maximum Instantaneous At 3.0A DC	V_F	1.3							V
Maximum DC Reverse Current @T_A=25°C At Rated DC Blocking Voltage @T_A=100°C	I_R	10 300							μA
Maximum Reverse Recovery Time	T_{rr}	150				250	500		μS
Typical Junction Capacitance (Note 1)	C_J	60(Typ)							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50(Typ)							°C/W
Operating Temperature Range	T_J	-55 to+150							°C
Storage Temperature Range	T_{STG}	-55 to+150							°C

Device Marking

Item	Marking	Item	Marking
FFM301	F31	**FFM305**	F35
FFM302	F32	**FFM306**	F36
FFM303	F33	**FFM307**	F37
FFM304	F34		