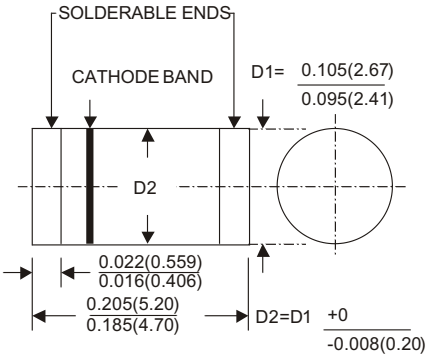
FM4933 thru FM4937

SURFACE MOUNT GLASS PASSIVATED FAST SWITCHING RECTIFIERS

DO-213AB / MELF



Dimension in inches (millimeters)

FEATURES

- Ldeal for surface mounted applications
- Low leakage current
- Glass passivated chips
- Fast switching
- High temperature soldering guaranteed：
  250°C/10 seconds/.375″ , (9.5mm) lead lengths

MECHANICAL DATA

Case：Molded plastic use UL94V-0 recoqnized flame retardant epoxy
Terminals：Plated terminals, solderable per MIL-STD-202, Method208
Polarity：Red Color band on body denotes cathode
Mounting position：Any
Weight：0.036gram

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

	SYMBOL	FM4933	FM4934	FM4935	FM4936	FM4937	UNITS
Maximum Current Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current T_T=55°C	$I_{(AV)}$	1.0					Amps
Peak Forward Surge Current Single Sine-Wave on Rated Load (JEDEC Method)	I_{FSM}	30					Amps
Maximum Instantaneous Forward Voltage Drop at 1.0A DC	V_F	1.3					Volts
Maximum DC Reverse Current @T_A=25°C at Rated DC Blocking Voltage T_A=125°C	I_R	5 100					μA
Maximum Reverse Recovery Time, Time, Test Conditions : I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A	T_{RR}	150				250	nS
Typical Junction Capacitance	C_J	15					pF
Operating Junction and Storage Temperature Range	T_J T_{STG}	-55 to +150					°C

SURFACE MOUNT GLASS PASSIVATED FAST SWITCHING RECTIFIERS

RATING AND CHARACTERISTICS CURVES FM4933 THRU Fm4937

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

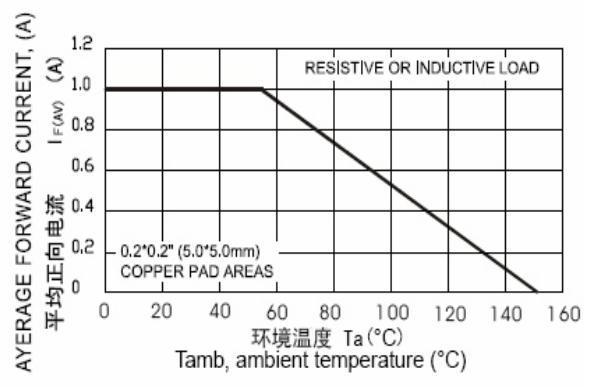


FIG. 2 - MAXIMUM NON □REPETITIVE PEAK FORWARD SURGE

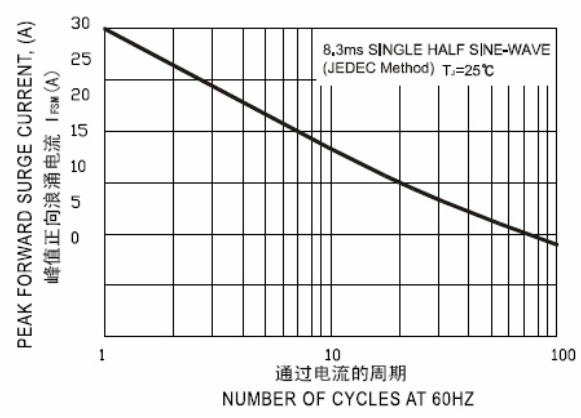


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

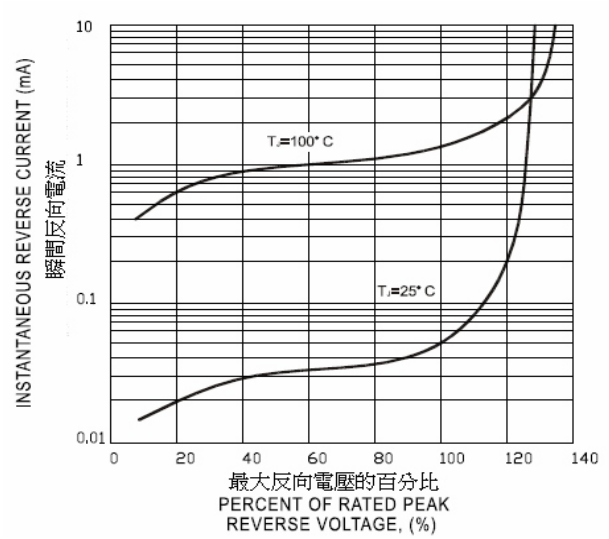


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

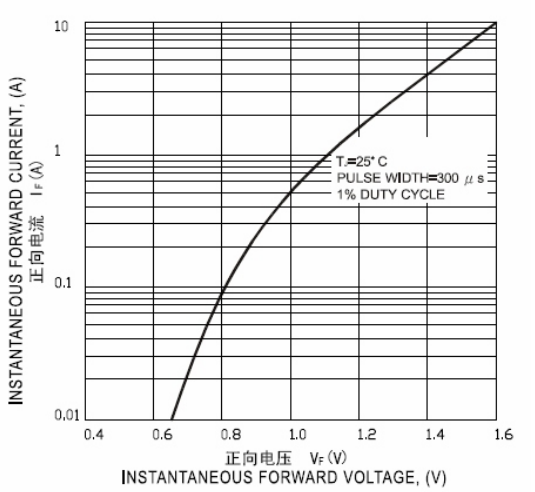


FIG. 5 -TYPICAL JUNCTION CAPACITANCE