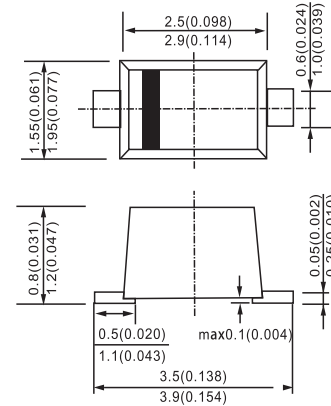




FEATURES

- Repetitive peak reverse voltage: V_{RRM}
- Average forward current: I_F (AV)
- Forward voltage: $V_{FM} = 2.0$ V (max)
- Very fast reverse-recovery time: $t_{rr} = 100$ ns (max.)
- Suitable for compact assembly due to small surface-mount Package "M-FLAT™" (Toshiba package name)

SOD-123



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL	CMF01	CMF02	CMF03	CMF04	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	600	900	800	V
Maximum Average Forward Current $T_a = 65^\circ\text{C}$	I_F	2.0 (Note 1)	1.0 (Note 1)	0.5 (Note 1)	0.5 (Note 1)	A
Maximum Peak One Cycle Surge Forward Current (Non-repetitive)	I_{FSM}	30(50HZ)	10(50HZ)			A
Maximum Forward Voltage at I_F	V_F	2.0		2.5		V
Maximum Thermal Resistance (Junction to Lead)	$R_{th(j-l)}$	16				$^\circ\text{C/W}$
Junction Temperature Range	T_J	- 40 to + 125				$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 150				$^\circ\text{C}$

Note 1: $T_l = 100^\circ\text{C}$ (CMF01) $T_l = 108^\circ\text{C}$ (CMF02) $T_l = 102^\circ\text{C}$ (CMF03) $T_l = 127^\circ\text{C}$ (CMF04)

Rectangular waveform ($\alpha = 180^\circ$)

Note 2: This rating specifies the non-repetitive peak current in one cycle of a 50 Hz sine wave, condition angle 180° . Therefore the rating applies only to abnormal operation, which seldom occurs during the lifespan of a device.



RATINGS AND CHARACTERISTIC CURVES CMF01 THRU CMF04

