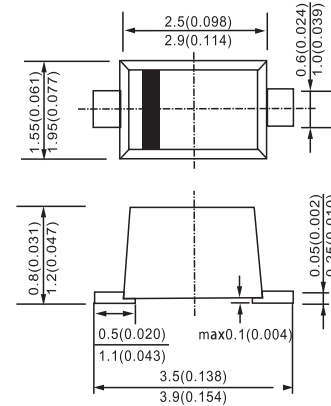




**FEATURES**

- 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  $180^\circ$ . Therefore the rating applies only to abnormal operation, which seldom occurs during the lifespan of a device.



RATINGS AND CHARACTERISTIC CURVES CMF01 THRU CMF04

