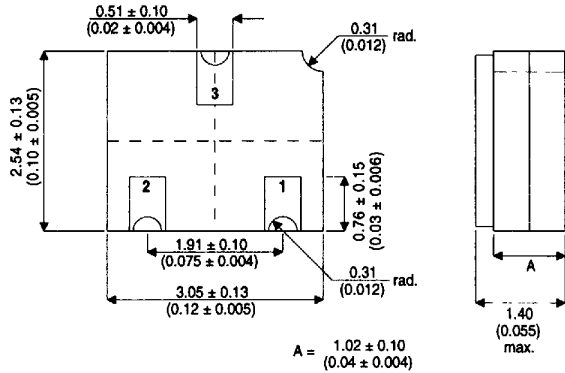


MECHANICAL DATA

GENERAL PURPOSE SILICON RECTIFIER DIODE



**General Purpose Rectifier Diode
In Hermetic Ceramic Surface
Mount Package for
High Reliability Applications**

SOT23 CERAMIC (CSM)

Underside View

PAD 1 — Anode PAD 2 — Not Connected PAD 3 — Cathode

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^\circ\text{C}$ unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_R	Reverse Voltage			50	V
V_{RRM}	Peak Reverse Voltage			50	V
$I_{F(AV)}$	Average Half Wave Rectified Forward Current	$T_{amb} \leq 25^\circ\text{C}$		1.0	A
		$T_{amb} = 100^\circ\text{C}$		0.75	
I_F	D.C Forward Current			1	A
I_{FRM}	Repetitive Peak Forward Current			10	A
I_{FSM}	Non-Repetitive Peak Forward Current	(half cycle surge , 60 c.p.s)		30	A

CHARACTERISTICS ($T_{case} = 25^\circ\text{C}$ unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_F	Forward Voltage Drop	$I_F = 1\text{A}$		1.1	V
$V_{F(AV)}$	Full-Cycle average forward voltage drop	$I_{F(AV)} = 1\text{A}$		0.8	V
I_R	Reverse Current	$V_R = 50\text{V}, T_{amb} = 25^\circ\text{C}$		10	μA
		$V_R = 50\text{V}, T_{amb} = 100^\circ\text{C}$		50	
$I_{R(AV)}$	Full cycle average reverse current	$V_{RRM} = 50\text{V}, T_{amb} = 75^\circ\text{C}$		30	μA