

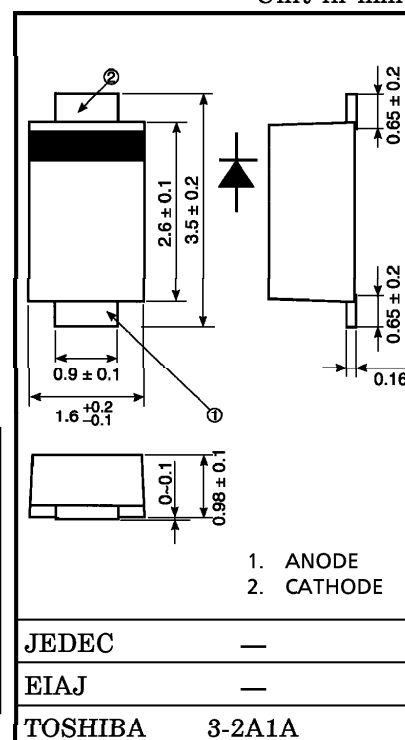
TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

CRS01

HIGH SPEED RECTIFIER APPLICATIONS

- Low Forward Voltage : $V_{FM}=0.37V$ @ $I_{FM}=0.7A$
- Average Forward Current : $I_F(AV)=1.0A$
- Repetitive Peak Reverse Voltage : $V_{RRM}=30V$
- Small Package : "S-FLAT" (Toshiba designation)

Unit in mm



MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Forward Current	$I_F(AV)$	1.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	20 (50Hz) 22 (60Hz)	A
Junction Temperature	T_j	-40~125	°C
Storage Temperature Range	T_{stg}	-40~125	°C

Weight : 0.013g

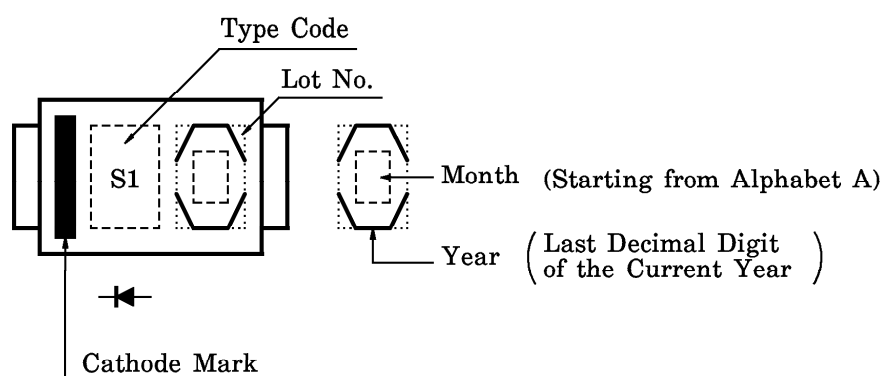
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}(1)$	$I_{FM}=0.1A$	0.25	—	V
	$V_{FM}(2)$	$I_{FM}=0.7A$	0.33	0.37	
	$V_{FM}(3)$	$I_{FM}=1.0A$	0.36	—	
Repetitive Peak Reverse Current	I_{RRM}	$I_{RRM}=30V$	—	1.5	mA
Junction Capacitance	C_j	$V_R=10V, f=1MHz$	40.0	—	pF
Thermal Resistance	$r_{th}(j-a)$	On ceramic substrate	—	70	°C/W
		On glass-epoxy substrate	—	140	

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MARKING



FOLLOWING INDICATES THE DATE OF MANUFACTURE

0	1	2	3	4
5	6	7	8	9

STANDARD SOLDERING PAD

Unit : mm

