



**TAYCHIPST**

RECTIFIER SILICON DIFFUSED TYPE

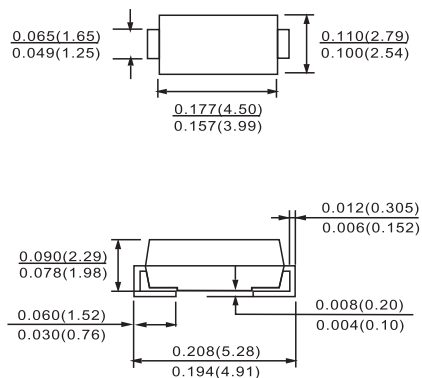
U05NH44,U05TH44

1000V,1500V 0.5A

**FEATURES**

- Repetitive Peak Reverse Voltage:  $V_{RRM}$
- Average Forward Current:  $I_F(AV) = 0.5A = 1000, 1500V$
- Reverse Recovery Time:  $t_{rr} = 4\mu s$
- Surface Mounting Plastic Mold Package

DO-214AC(SMA)



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

**MAXIMUM RATINGS (Ta = 25°C)**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	U05NH44	1000	V
	U05TH44	1500	
Average Forward Current	$I_F(AV)$	0.5	A
$I^2t$ Limit Value (t = 1~10ms)	$I^2t$	2	$A^2s$
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	20 (50Hz)	A
Junction Temperature Range	$T_j$	-40~125	°C
Storage Temperature Range	$T_{stg}$	-40~125	°C

**ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 0.5A$	—	—	1.5	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = \text{Rated}$	—	—	10	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = 20mA, I_R = 1mA$	—	—	4	$\mu s$

**RATINGS AND CHARACTERISTIC CURVES U05NH44 , U05TH44**

