

DESCRIPTION

STS10T06 is designed with trench technology to provide excellent low Vf. Those devices are suitable for use for switching power supply.

PIN CONFIGURATION (TO-277A)

FEATURES

- ◆ Vf ≤ 0.5V
- ◆ Fast Switching Speed
- ◆ Low Forward Voltage,
- ◆ Reliable High Temperature Operation
- ◆ Lead Free, RoHS Compliance

ORDERING INFORMATION

Part Number	Package	Part Marking
STS10T06T277RGB	TO-277A	ST10S06

※ STS10T06T277RGB: Tube; Pb - Free ; Halogen - Free

ABSOLUTE MAXIMUM RATINGS

(TA=25 U°C unless otherwise noted)

Parameter	Symbol	Typical	Unit
Repetitive Peak Reverse Voltage	VRRM	65	V
DC Blocking Voltage	VRM	65	V
Working Repetitive Reverse Voltage	VRWM	65	V
Average Rectifier Forward Current per Leg	IO	10	A
Peak Forward Surge Current - 1/2 60Hz	IFSM	150	A
Repetitive Peak Reverse Surge Current	IRRM	1	A
Power dissipation	PD	165	W
Thermal Resistance Junction to Ambient	RθJC	2	°C/W
Storage Temperature Range	TSTG	-40 ~ 150	°C



STS10T06
Low Vf Schottky Diode



10.0A

ELECTRICAL CHARACTERISTICS

(TA=25°C Unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ	Max.	Unit
Reverse Breakdown Voltage	VBR	IR = 10mA	65			V
Instantaneous Forward Voltage	VF	IF = 5A, TJ = 25°C		0.46		V
		IF = 10A, TJ = 25°C			0.55	
		IF = 5A, TJ = 125°C		0.42		
		IF = 10A, TJ = 125°C			0.5	
Instantaneous Reverse Current	IR	VR = 65V, TJ = 25°C			200	uA
		VR = 65V, TJ = 125°C			20	mA

TO-277A PACKAGE OUTLINE

