

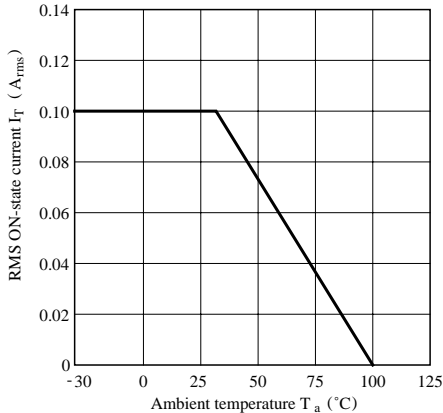


**Electro-optical Characteristics**

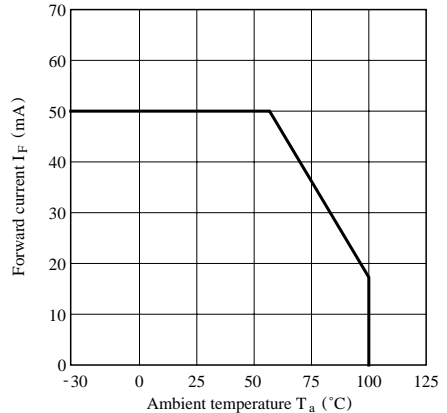
( $T_a = 25^\circ\text{C}$ )

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	$V_F$	$I_F = 20\text{mA}$	-	1.2	1.4	V
	Reverse current	$I_R$	$V_R = 3\text{V}$	-	-	$10^{-5}$	A
Output	Repetitive peak OFF-state current	$I_{DRM}$	$V_{DRM} = \text{Rated}$	-	-	$10^{-6}$	A
	ON-state voltage	$V_T$	$I_T = 0.1\text{A}$	-	2.0	3.0	V
	Holding current	$I_H$	$V_D = 6\text{V}$	0.1	0.5	3.5	mA
	Critical rate of rise of OFF-state voltage	$dV/dt$	$V_{DRM} = (1/\sqrt{2}) \cdot \text{Rated}$	100	-	-	V/ $\mu\text{s}$
	Zero-cross voltage	$V_{OX}$	Resistance load, $I_F = 10\text{mA}$	-	-	35	V
Transfer-characteristics	Minimum trigger current	$I_{FT}$	$V_D = 6\text{V}, R_L = 100\Omega$	-	-	5	mA
	Isolation resistance	$R_{ISO}$	DC500V, 40 to 60% RH	$5 \times 10^{10}$	$10^{11}$	-	$\Omega$
	Turn-on time	$t_{on}$	$V_D = 6\text{V}, R_L = 100\Omega, I_F = 20\text{mA}$	-	-	20	$\mu\text{s}$

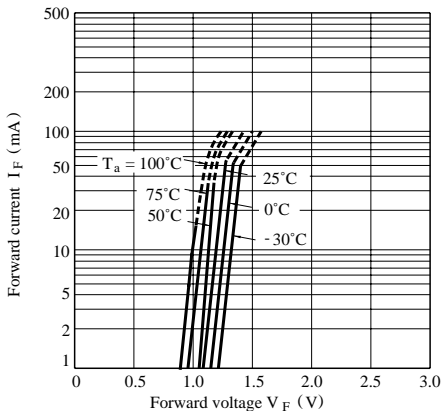
**Fig. 1 RMS ON-state Current vs. Ambient Temperature**



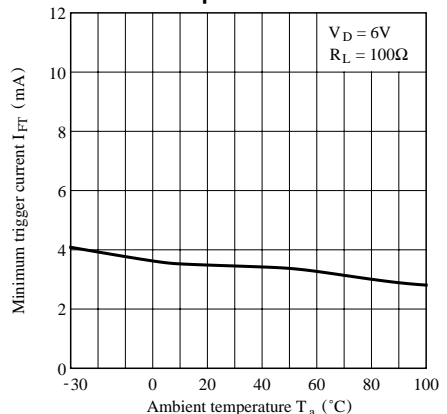
**Fig. 2 Forward Current vs. Ambient Temperature**



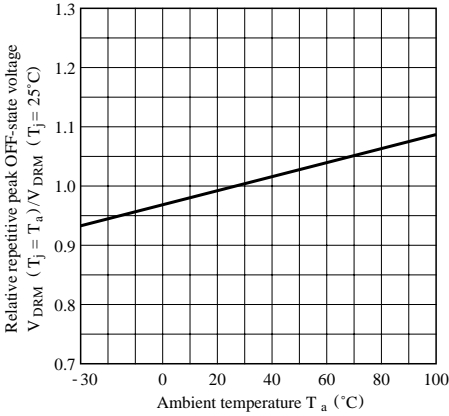
**Fig. 3 Forward Current vs. Forward Voltage**



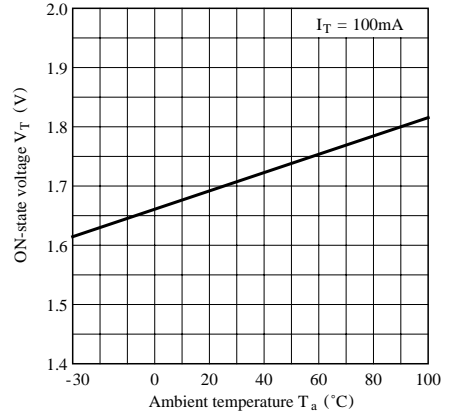
**Fig. 4 Minimum Trigger Current vs. Ambient Temperature**



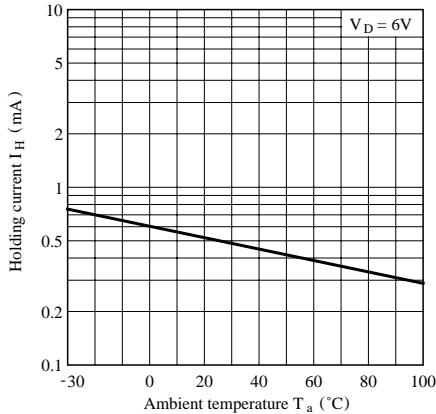
**Fig. 5 Relative Repetitive Peak OFF-state Voltage vs. Ambient Temperature**



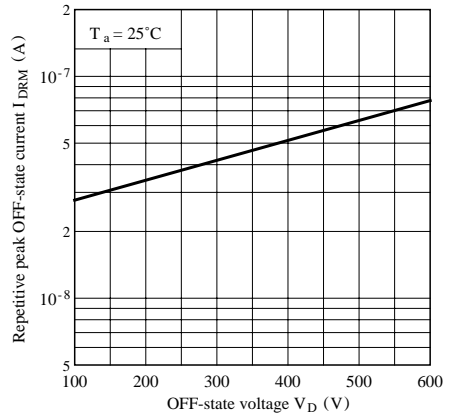
**Fig. 6 ON-state Voltage vs. Ambient Temperature**



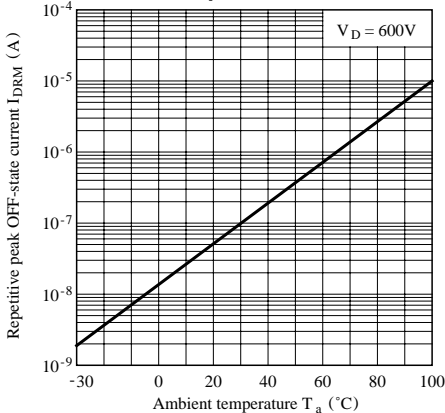
**Fig. 7 Holding Current vs. Ambient Temperature**



**Fig. 8 Repetitive Peak OFF-State Current vs. OFF-State Voltage**



**Fig. 9 Repetitive Peak OFF-state Current vs. Ambient Temperature**



**Fig.10 Zero-cross Voltage vs. Ambient Temperature**

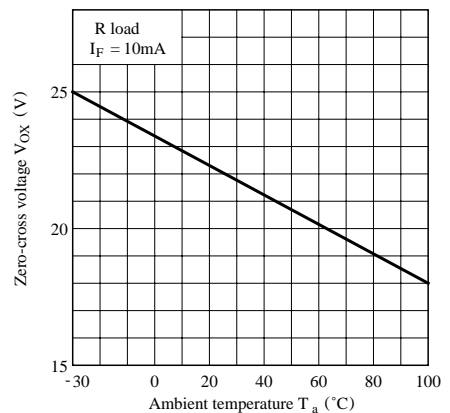


Fig.11 Turn-on Time vs. Forward Current

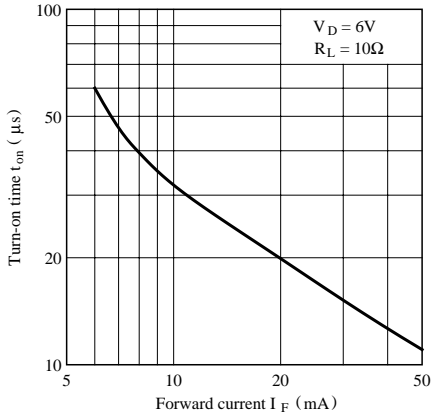
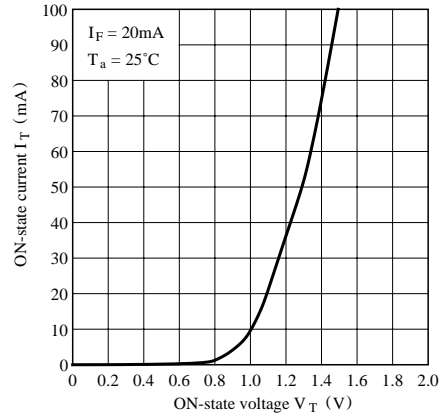
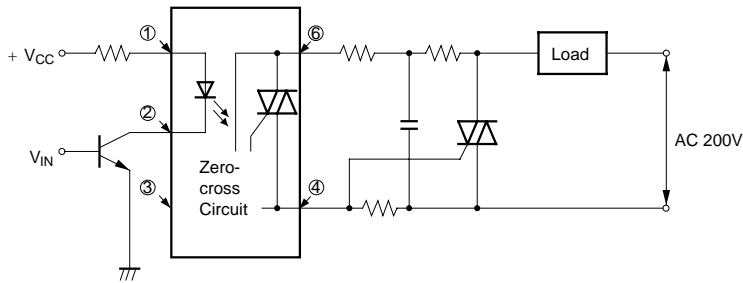


Fig.12 ON-state Current vs. ON-state Voltage



■ Basic Operation Circuit



- Please refer to the chapter “Precautions for Use”